A Division of Viking-Cives Group

Gen II Light Duty
Parts & Service Manual

2005 Ford F250/350, F450/550, 2005/08 GMC 4500 & 5500 Models

Unit Serial Number: _____

Record the MODEL and SERIAL NUMBER of equipment for parts ordering information.

PURCHASED FROM:_____
DATE:_____
MODEL:_____
SERIAL NUMBER:_____

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WARRANTY POLICY

Viking-Cives Midwest, Inc. warrants products of its manufacture against defects in workmanship and material for a period of one year, from the date of shipment to the customer. In consequence of this warranty, any component part or parts of such products proving defective within the above specified time will be repaired or replaced F.O.B. factory. Providing such parts are returned, transportation prepaid, to the factory and found defective by Viking-Cives Midwest, Inc..

This warranty will not apply to any product which has been repaired or altered outside of Viking-Cives Midwest, Inc. factory in any way, so as in Viking-Cives Midwest, Inc. judgment, to affect its stability or reliability, nor which has been subject to misuse or accident.

The obligations of Viking-Cives Midwest, Inc. under this warranty are limited to the replacement of defective parts. Such obligations are exclusive and in lieu of all other remedies, warranties, guarantees of liabilities, expressed or implied, with respect to each product delivered, hereunder, arising by law or otherwise (including without limitation any obligation or liability by Viking-Cives Midwest, Inc. arising from negligence or with respect to fitness, merchantability, loss of use, revenue, or profit, or consequential damages or injuries).

This limited warranty shall not be extended, altered, or varied except by a written instrument signed by Viking-Cives Midwest, Inc..

Viking-Cives Midwest, Inc. assumes no responsibility for engines, electrical equipment or any other equipment and accessories not manufactured by Viking-Cives Midwest, Inc. beyond the warranty of the manufacturer of such equipment of accessories.

All warranty work done on Viking-Cives Midwest, Inc. equipment must have prior authorization from Viking-Cives Midwest, Inc. along with a **"Return Goods Authorization"** number. All labor and parts issued by user for Viking-Cives Midwest, Inc. warranty without an authorization number and a signed authorization warranty form will be at the users own cost.

ORDERING PARTS

Delays and errors can be eliminated when ordering instructions are followed correctly.

1. Place orders direct with Viking-Cives Group/nearest dealer.
2. State Company name, address, and postal/zip code.
3. Give the exact model and serial number of the equipment/unit (stamped on the unit identification plate.)
4. Furnish part number, description and quantities required. *Note: An alpha designation in the Item ID column indicates a sub-component for that parent item. When placing parts orders reference the parent item to receive a complete assembly. Individual items can be ordered separately if required by ordering the alpha designated item number.*
5. Print or type order clearly.
6. Give specific shipping instructions.

VIKING-CIVES (USA) – RR2, Box 36-1/2; Harrisville, New York 13648; (315) 543-2321, (315) 543-2366 Fax
VIKING-CIVES MIDWEST, INC. – 22956 Highway 61; Morley, MO 63767; (573) 262-3545, (573) 262-3369 Fax
VIKING-CIVES LTD. – RR4, Box 1120; Mount Forest, Ontario, Canada N0G 2L0; (519) 323-4433, (519) 323-4608 Fax

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WARRANTY REQUEST PROCEDURE

All repairs considered for warranty that are performed outside of Viking-Cives Midwest, Inc.; require prior written authorization from Viking-Cives Midwest, Inc.. Failure to obtain written warranty authorization prior to repairs may result in the rejection of the warranty claim. **To obtain warranty consideration one must provide all required Viking-Cives Midwest, Inc. with unit information including date of manufacture and serial numbers.** In most cases this information is easily obtained from the "Shipped Unit Tag" (located in most cases inside the driver's side door) and/or individual unit serial tag.

(A) To obtain Parts Warranty Consideration:

(1) Contact Viking-Cives Midwest, Inc. customer service to obtain a Return Goods Authorization (RGA) number. Any product arriving at Viking-Cives Midwest, Inc. without a RGA number will be rejected and returned to the sender at his or her own expense.
(2) Goods are to be shipped prepaid to Viking-Cives Midwest, Inc. 212 North Evans Road Evansdale, Iowa 50707. **All items should be clearly marked with the appropriate RGA number.**
(3) When a replacement item is shipped to replace a defective part for warranty consideration the following additional steps will occur:
    a) An invoice will be generated for the value of the replacement item(s).
    b) The defective part(s) must be returned (prepaid) to Viking-Cives Midwest, Inc..
    c) Upon receiving the defective part(s) Viking-Cives Midwest, Inc. will issue and process a Discrepant Material Report (DMR). Once the evaluation of the DMR report is complete and the parts are deemed warranty, a credit will be issued against the outstanding invoice. **If the part(s) are deemed Non-warranty the invoice will remain outstanding to be paid to Viking-Cives Midwest, Inc..** Any part(s) to be returned to the customer will be at his or her own expense.

(B) To obtain Labor Parts Repair Warranty Consideration:

In the event that repairs are required outside of Viking-Cives Midwest, Inc. facility that may be considered for warranty the following steps must occur. **Notification of Viking-Cives Midwest, Inc. customer service must take place prior to the start of any repairs.**

(1) Contact Viking-Cives Midwest, Inc. customer service to obtain a Warranty Claim Form (WCF) and warranty authorization number.
(2) Fill out all required WCF information and fax or mail the completed form to Viking-Cives Midwest, Inc., attention Customer Service Department.
(3) Once the WCF report has been reviewed warranty authorization will be granted or denied. **NOTE: Viking-Cives Midwest, Inc. warranty labor rates will apply unless specifically determined otherwise.** Any part(s) involved in a WCF request must follow the Parts Warranty Consideration procedures.

For Customer Service and/or Parts requests please contact:

Service Department – DeWayne Stroder (dstroder@vikingcivesmidwest.com)
Ph. (573) 262-3545; Fax (573) 262-3369

Viking-Cives Midwest, Inc.

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INTRODUCTION

This instruction/parts manual has operation and maintenance information for the Viking-Cives Sno-King Equipment. It has been prepared to familiarize you with the design features of the unit, and to instruct you in its proper operation and maintenance.

Read this manual carefully before you operate and/or service your Sno-King Equipment. Remember that you're working with heavy equipment that can injure you or someone else. You can help lessen the chance of injury by following the procedures in this manual, carefully.

DANGER: If incorrectly used, this equipment can cause severe injury. Your chance of injury can be greatly reduced by following all caution/warning decal notifications. All decals must be kept clean and complete. Replace any decals that are unreadable. Decals may be purchased directly from Viking-Cives Group and/or the nearest authorized dealer. All Operator/Service people should review this manual carefully and become familiar with its contents. **If anyone else beside you operates or services this equipment, make sure they read this manual and are instructed to follow the safety procedures related to this equipment.**

PERIODIC MAINTENANCE INSPECTION
DAILY INSPECTION AND LUBRICATION

Daily inspection along with periodic preventive maintenance will reduce the chance of any major repairs and down time during equipment use.

1. Check the fluid level in the hydraulic oil reservoir. If the sight indicates low oil level, add the appropriate amount of the specified hydraulic fluid. **Cold Weather Operation:** All equipment is designed to operate with hydraulic oil minimally warm. During cold weather conditions, it is recommended that the truck be run at idle with the pump engaged and circulating the oil through the system before operating equipment.
2. Grease all required components:
   - All plow harness sheave nipples.
   - All pump drive shaft nipples.
   - Front and Rear tower sheave swivel blocks.
   - Wing extension arm nipples.
   - Front and Rear tower guide tracks.
   - All front harness pivot points.
3. Check all components for loose and/or missing fasteners, if required tighten and/or replace.
4. Visually inspect all battery terminals and electrical connections, wires, switches, etc. for signs of corrosion, wear, loose and/or broken connections, etc. At the beginning of each shift review all lighting accessories to ensure proper working conditions, immediately replace any broken or non-functioning bulbs and/or lenses.
5. Visually inspect all hydraulic connections and hoses for cracks and/or leaks.
6. Check all cables, chains and sheaves for excessive wear or damage.
7. Visually inspect plow and wing units. Check cutting edges and wear shoes. If cutting edge has excessive wear remove and rotate or if required replace. **CAUTION:** Do not allow cutting edge to wear down to mounting angle. Any wear to the mounting angle may affect the operation and safety of the equipment. Replacement is costly.
8. At the beginning of each shift visually inspect all caution and warning decals. All decals should be complete and legible. If decals are not legible, clean them. If cleaning the decals does not make them legible, install new decals.

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REGISTRATION OF EQUIPMENT AND WARRANTY INFORMATION

Report any damage to equipment at once to Viking-Cives Midwest, Inc.. You should also register your equipment with Viking-Cives Midwest, Inc., by filing out a warranty certificate and registration card and returning them to Viking-Cives Midwest, Inc.. The warranty period becomes effective upon date of delivery of equipment unless other arrangements have been made with a Viking-Cives Midwest, Inc. Distributor or Viking-Cives Midwest, Inc.. The information required to register the equipment may be found on the serial number tag secured to the equipment.

Model NO. CTE 934 / SERIAL NO._____
22956 Highway 61 Morley, MO 63767
Phone (573) 262-3545 / Fax (573) 262-3369

A WORD ABOUT SAFETY:

The equipment described in this manual is normally being operated in adverse winter conditions with bad weather, snow and ice. Due to these adverse operating conditions it is important that you the operator use good safety practices at all time to protect yourself, co-workers and others when using the equipment.

It is not practical or possible to warn you about all the hazards associated with the operation and maintenance of this equipment. You should always use your own good judgment supplemented with the information found on the safety decals, instructions in this manual, your employer's safety programs, safety codes, local, state/provincial, and federal laws, rules and regulations.

When operating/performing maintenance on this equipment, trouble shooting equipment operations and loading or unloading the sanders/spreaders with material observe & obey all safety decals on the equipment and warnings listed in the manual. Failure to do this could result in serious injury or death to you or others.
Remember at all times that as the operator you are responsible for the safe operation of this equipment and responsible for the safety of others. Good safety practices not only protect you but also protect the people around you.

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2005 FORD SUPER DUTY INSTALLATION INSTRUCTIONS – F250/350 & F450/550

1. Remove front bumper saving the fasteners for re-installation.
2. Remove tow hook fasteners.
3. Drop out blocker beam.
4. Install left and right attaching brackets utilizing the original fasteners and tow hooks. Also at this time install one 5/8" x 2" in hole 6" behind 3 tow hook bolts.
5. Install four ½" x 1 ½" bolts on side plate.
6. Position receiver plate "F" onto receiver pads and install with 5/8" x 2" bolts and locking nuts. Insert three bolts upward and one bolt down per side as shown in illustrations.
7. Verify proper frame contact and alignment of all components at this time. Adequately tighten the following fasteners is this sequence:
    - (6) Original metric tow hook bolts
    - (2) 5/8" x 2" bolts behind tow hook bolts
    - (8) ½" x 1 ½" bolts on side plate
    - (8) 5/8" x 2" bolts connecting receiver to attaching kit
8. Install lift frame release pins, springs, and cotter pins into receiver plate "F".
9. Re-install and properly adjust bumper utilizing the original fasteners.

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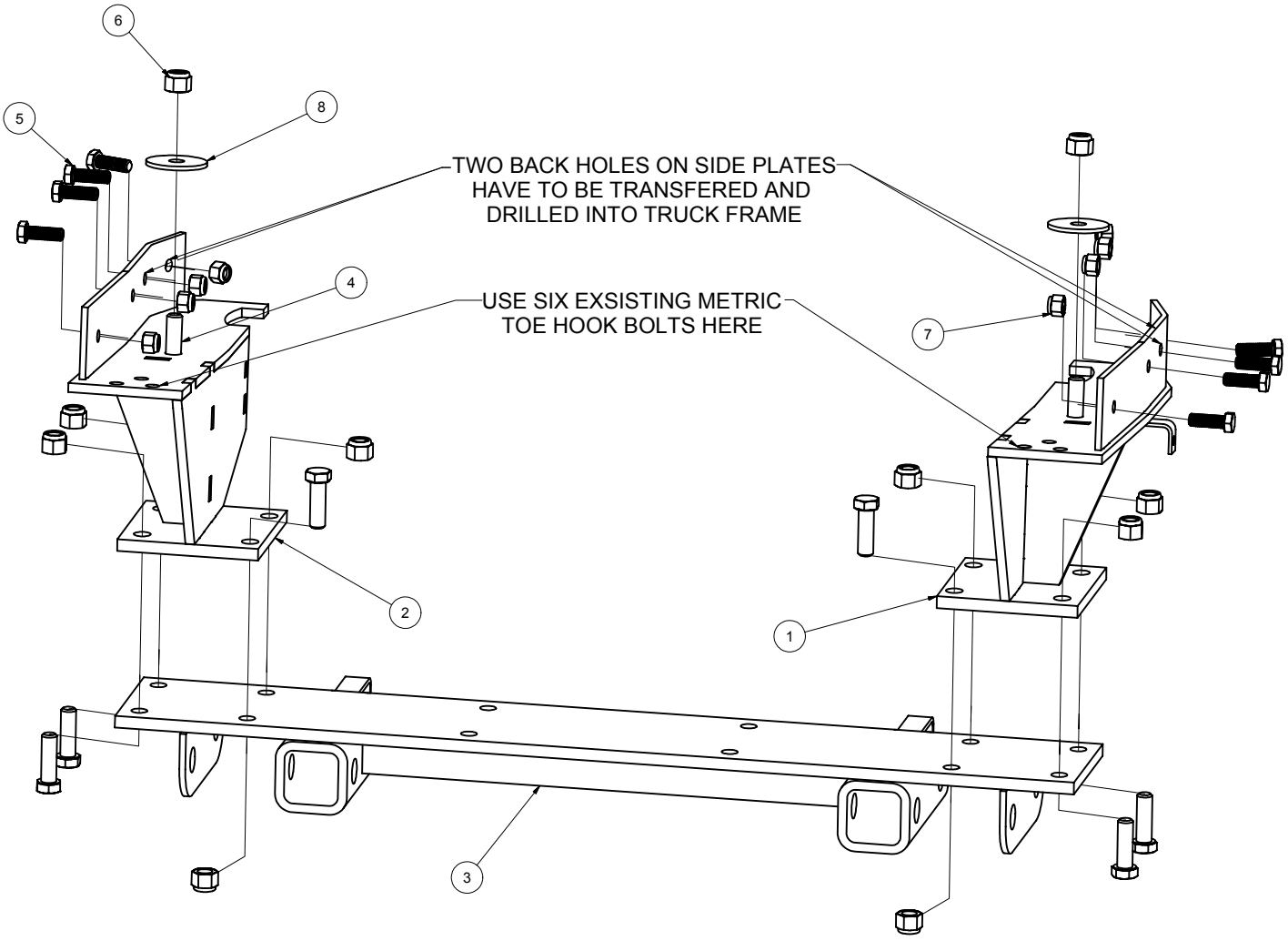
2005 FORD ATTACH KIT
PART #3SK1522



NOTES: ITEM NUMBER 3 IS NOT
INCLUDED IN KIT 3SK1522.

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL
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2005 FORD ATTACH KIT:

** CAN ONLY PURCHASE AS AN ENTIRE ASSEMBLY**

ITEM #	PART #	DESCRIPTION	QTY
1	3SK1522	DRIVERS SIDE	1
2	3SK1522	PASSENGER SIDE	1
3	3SK2211	LD RECEIVER WELDMENT	1
4	3SK3700	BOLT HEX 5/8” X 2” UNC ZINC	10
5	3SK3600	BOLT HEX ½” X 1 ½” UNC ZINC	8
6	3SK3781	NUT HEX TOP LOCK 5/8” UNC ZINC	10
7	3SK3670	NUT HEX TOP LOCK ½” UNC ZINC	8
8	3SK3768	FLATWASHER 5/8”	2

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NOTES

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2005 to 2008 GMC INSTALLATION INSTRUCTIONS – 4500 AND 5500

1. Remove front bumper saving the fasteners for reinstallation.
2. Remove tow hooks and fasteners.
3. Install items 4 and 5 to the bottom of frame rails using the 8 metric bolts provided. Don't tighten all the way right now.
4. Install items 6 and 7 over the top of frame rails making sure item 8 is between frame and two outside holes. Reinstall 4 OEM tow hook fasteners and tow hooks thru item 6, 7, and 8.
5. Install left and right attaching brackets to items 4, 5, 6, and 7 with fasteners provided. Don't tighten nuts and bolts at this time.
6. Position receiver plate item 3 to the receiver pads of the left and right attaching brackets.
7. Verify proper frame contact and alignment of all components at this time. Adequately tighten the following fasteners in this sequence:
    - (4) Original tow hooks and tow hook bolts.
    - (8) ½" x 1 ½" in upper sections of left and right attaching brackets.
    - (12) 5/8" x 2" bolts connecting receiver to attaching brackets.
8. Install items 9 and 11 to existing holes rearward on frame with (4) OEM fasteners already in frame.
9. Install stiffener bar (item 12) to items 9 and 11 using (2) 5/8" x 1 ¾" bolt and (2) 5/8" top lock nuts. Next install item 10 to stiffener bars (item 12) using (2) 5/8" x 1 ¾" bolts and (2) 5/8" top lock nuts. Position item 10 off the back of attaching brackets (item 1 and 2) and weld complete.
10. Install lift frame release pins, springs, and cotter pins into item 3.
11. Re-install and properly adjust bumper utilizing the original fasteners.

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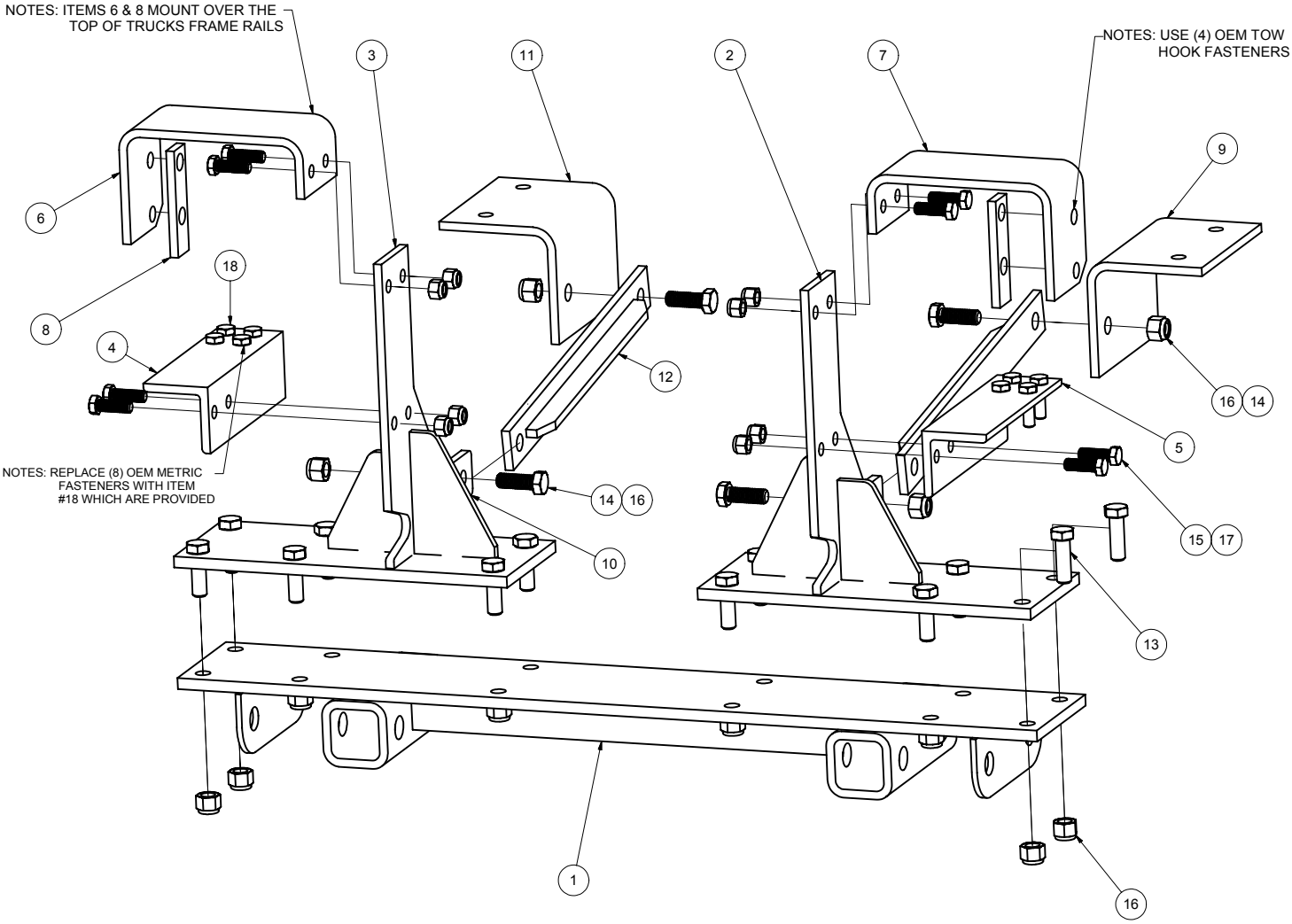
2005 GMC 4500 & 5500 ATTACH KIT
PART #3SK1543



NOTES: ITEMS 9 & 11 ARE REAR BRACE ARM CLIPS WHICH ARE INSTALLED REARWARD ON THE FRAME USING EXSISTING CROSS MEMBER HOLES ITEM 10 IS WELDED OFF TO ITEMS 1 & 2 AFTER REAR CLIPS ARE INSTALED AND EVERYTHING IS TIGHTENED

NOTES: ITEM #1 IS NOT INCLUDED IN KIT 3SK1543

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL
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2005 GMC 4500 & 5500 ATTACH KIT:

** CAN ONLY PURCHASE AS AN ENTIRE ASSEMBLY**

ITEM #	PART #	DESCRIPTION	QTY
1	3SK1543R	ATTACH MOUNT DRIVERS SIDE	1
2	3SK1543L	ATTACH MOUNT PASSENGER SIDE	1
3	3SK2211	LD RECEIVER WELDMENT	1
4	VIK-P00270-2	ANGLE 3.000 X 3.000 X 0.375 – 9.313	1
5	VIK-P00271-2	ANGLE 3.000 X 3.000 X 0.375 – 9.313	1
6	VIK-P00257-4	PLATE 5.000 X 14.544 X 0.375	1
7	VIK-P00257-5	PLATE 6.000 X 15.500 X 0.375	1
8	VIK-P00268-2	PLATE 1.313 X 4.813 X 0.375	2
9	VIK-P00272-2	PLATE 7.375 X 9.866 X 0.375	1
10	VIK-P00274-2	PLATE 2.000 X 6.000 X 0.375	2
11	VIK-P00273-2	PLATE 7.375 X 9.866 X 0.375	1
12	VIK-P00269	STIFFINER BAR	2
13	3SK3700	BOLT HEX 5/8” X 2” UNC ZINC	12
14	3SK3699	BOLT HEX 5/8” X 1 ¾” UNC ZINC	4
15	3SK3600	BOLT HEX ½” X 1 ½” UNC ZINC	8
16	3SK3781	NUT HEX TOP LOCK 5/8” UNC ZINC	16
17	3SK3670	NUT HEX TOP LOCK ½” UNC ZINC	8
18	3SK3836	BOLT HEX M12 X 1.75 PITCH X 40 MM LG ZIN	8

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2008 FORD SUPER DUTY INSTALLATION INSTRUCTIONS – F250/350 & F450/550

1. Remove front bumper saving the fasteners for reinstallation.
2. Install left and right attaching brackets, (items 2 &3) using one ¾" x 2" bolt (item 6) and ¾" flat washer (item 7) in the formed vertical angle and one in the back hole in the side plate. Also at this time install one ½" x 2" bolt (item 9) and ½" flat washer (item 11) in the forward hole of the side plate. Place one 5/8" x 1 ½" bolt (item 10) thru the formed angle so that it goes thru the radiator hanger bracket.
3. After tightening bolts in step two, transfer holes in the bottom of the frame. After transferring the two holes, place two 5/8" x 1 ½" bolts (item 10) and 5/8" flat washer (item 13) on the inside of the truck frame.
4. Verify proper frame contact and alignment of all components at this time.
5. After verifying frame contact and alignment, loosen all bolts in step two but do not remove them all the way.
6. Install receiver weldment (item 1) to items two and three using twelve 5/8" x 2" bolts (item 4) and nuts (item 5).
7. Adequately tighten the following fasteners in this sequence:
    - (4) Original tow hooks and tow hook bolts.
    - (2) ½" x 2" bolts in side plate
    - (2) 5/8" x 1 ½" bolts in formed angle
    - (4) 5/8" x 1 ½" bolts in transformed holes in truck frame
    - (12) 5/8" x 2" bolts connecting receiver to attaching brackets.
8. Install lift frame release pins, springs, and cotter pins into receiver weldment (item 1)
9. Re-install and properly adjust bumper utilizing the original fasteners.

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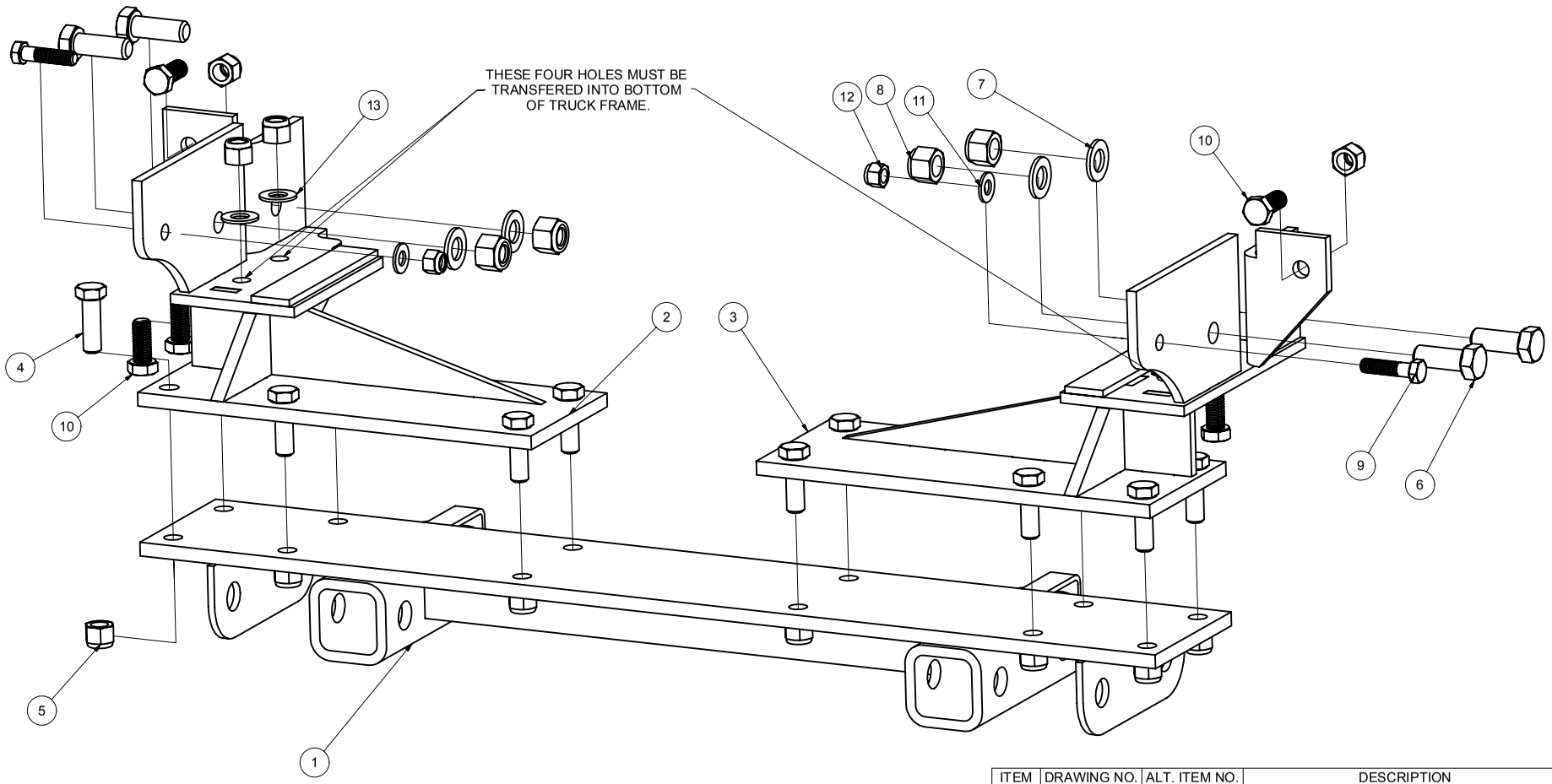
2008 FORD ATTACH KIT
3SK1524



ITEM	DRAWING NO.	ALT. ITEM NO.	DESCRIPTION	QTY
1	3SK2211		LD RECIEVER WELDMENT	1
2	3SK1524-L		2008 ATTACHING WELDMENT PASS SIDE	1
3	3SK1524-R		2008 ATTACHING WELDMENT DRVS SIDE	1
4	3SK3700	81073D	BOLT HEX 5/8 X 2 UNC ZINC	12
5	3SK3781		NUT HEX TOPLOCK 5/8" UNC ZINC	18
6	32K3795	81064E	BOLT HEX 3/4 X 2 UNC ZINC	4
7	3SK3820	81062X	FLATWASHER SAE 3/4" ZINC	4
8	3SK3811		NUT HEX TOPLOCK 3/4" UNC ZINC	4
9	3SK3610	81083	BOLT HEX 1/2 X 2 UNC ZINC	2
10	3SK3698	81072	BOLT HEX 5/8 X 1 1/2 UNC ZINC	6
11	3SK3661		FLATWASHER SAE 1/2 ZINC	2
12	3SK3670		NUT HEX TOPLOCK 1/2" UNC ZINC	2
13	233819	81070A	FLATWASHER SAE 5/8 ZINC	4

NOTES

ITEM NUMBER 1 IS NOT INCLUDED IN KIT 3SK1524

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This Owner's Manual File is Contained Within 3SK1524 ASSY.idw

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3SK1524: 2008 FORD ATTACH KIT

** CAN ONLY PURCHASE AS AN ENTIRE ASSEMBLY**

ITEM #	PART #	ALT PART #	DESCRIPTION	QTY
1	3SK2211		LD RECEIVER WELDMENT	1
2	3SK1524-L		2008 ATTACHING WELDMENT PASS SIDE	1
3	3SK1524-R		2008 ATTACHING WELDMENT DRIVER SIDE	1
4	3SK3700	81073D	BOLT HEX 5/8 X 2 UNC ZINC	12
5	3SK3781		NUT HEX TOPLOCK 5/8" UNC ZINC	18
6	3SK3795	81064E	BOLT HEX ¾ X 2 UNC ZINC	4
7	3SK3820	81062X	FLATWASHER SAE ¾" ZINC	4
8	3SK3811		NUT HEX TOPLOCK ¾" UNC ZINC	4
9	3SK3610	81083	BOLT HEX ½ X 2 UNC ZINC	2
10	3SK3698	81072	BOLT HEX 5/8 X 1 ½ UNC ZINC	6
11	3SK3661		FLATWASHER SAE ½ ZINC	2
12	3SK3670		NUT HEX TOPLOCK ½" UNC ZINC	2
13	233819	81070A	FLATWASHER SAE 5/8 ZINC	4

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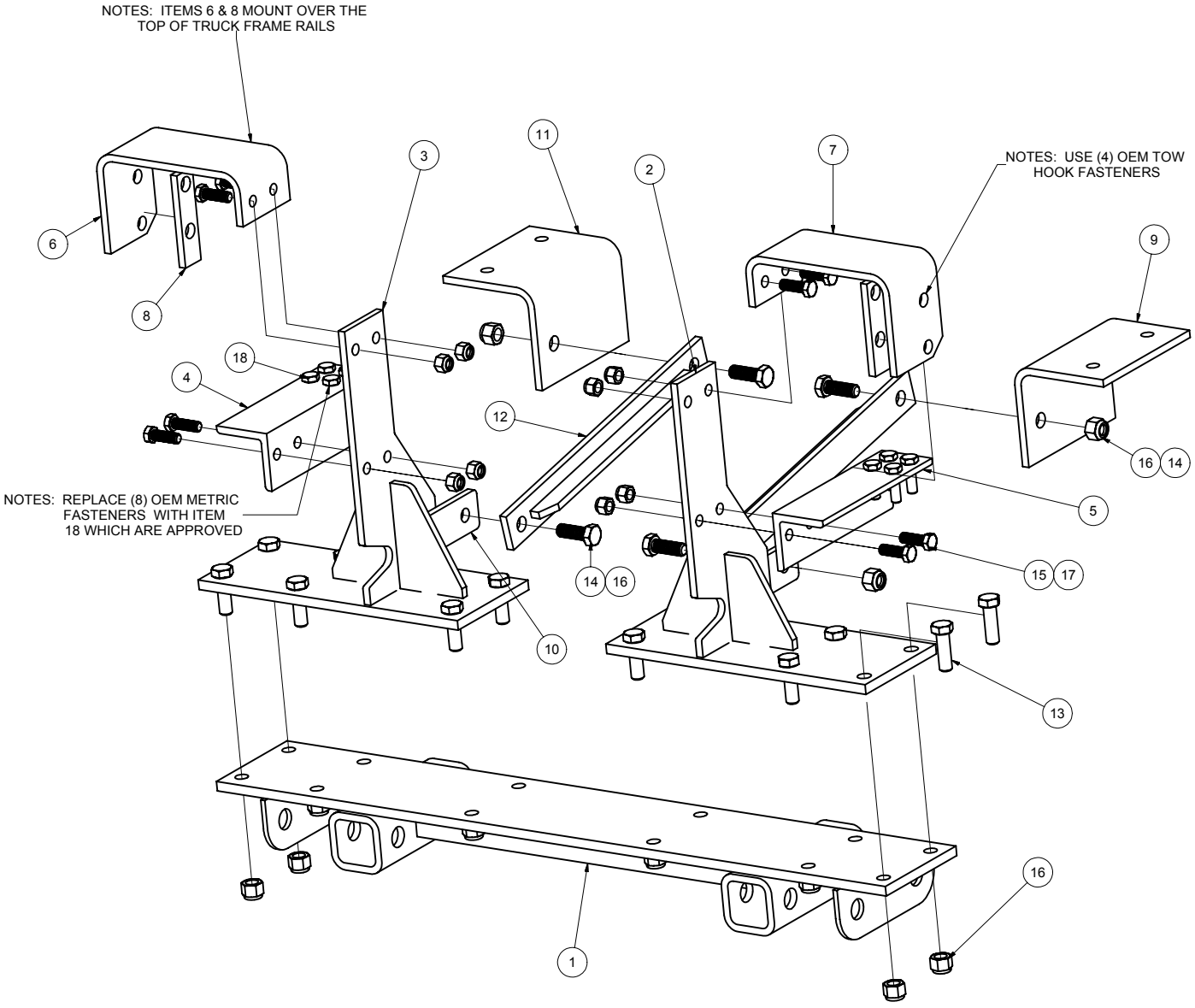
2008 GMC 4500 AND 5500 ATTACH KIT
PART #3SK1544



NOTES: ITEMS 9 AND 11 ARE REAR BRACE ARM CLIPS
WHICH ARE INSTALLED REARWARD ON THE FRAME
USING EXSISTING CROSS MEMBER HOLES
ITEM 10 IS WELDED OFF TO ITEMS 1 AND 2 AFTER
REAR CLIPS ARE INSTALLED AND EVERYTHING IS TIGHTENED

NOTES: ITEM 1 IS NOT INCLUDED
IN KIT 3SK1544

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL
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3SK1544: 2008 GMC 4500 & 5500 ATTACH KIT

** CAN ONLY PURCHASE AS AN ENTIRE ASSEMBLY**

ITEM #	PART #	ALT PART #	DESCRIPTION	QTY
1	3SK2211		LD RECEIVER WELDMENT	1
2	20303034		ATTACH MOUNT DRV SIDE 2008 GMC	1
3	20303035		ATTACH MOUNT PASS SIDE 2008 GMC	1
4	20306037		UNDER FRAME MOUNTING ANGLE	1
5	20306038		UNDER FRAME MOUNTING ANGLE	1
6	20322014		FRAME HANGER PLATE PASS SIDE	1
7	20322013		FRAME HANGER PLATE DRIVER SIDE	1
8	20305082		SPACER PLATE FRAME HANGER	2
9	20322011		REAR BRACE ARM PLATE DRIVER SIDE	1
10	20305083		BRACE ARM ATTACHING LUG	2
11	20322012		REAR BRACE ARM PLATE PASS SIDE	1
12	20303036		BRACE ARM WELDMENT	2
13	HW40A-1016	81073D	BOLT HEX 5/8 X 2 UNC ZINC	12
14	3SK3699		BOLT HEX 5/8” X 1 3/4” UNC ZINC	4
15	3SK3600		BOLT HEX ½” X 1 ½” UNC ZINC	8
16	3SK3781		NUT HEX TOPLOCK 5/8” UNC ZINC	16
17	3SK3670		NUT HEX TOPLOCK ½” UNC ZINC	8
18	3SK3836		BOLT HEX M12 X 1.75 PITCH X 40 MM LG ZINC	8

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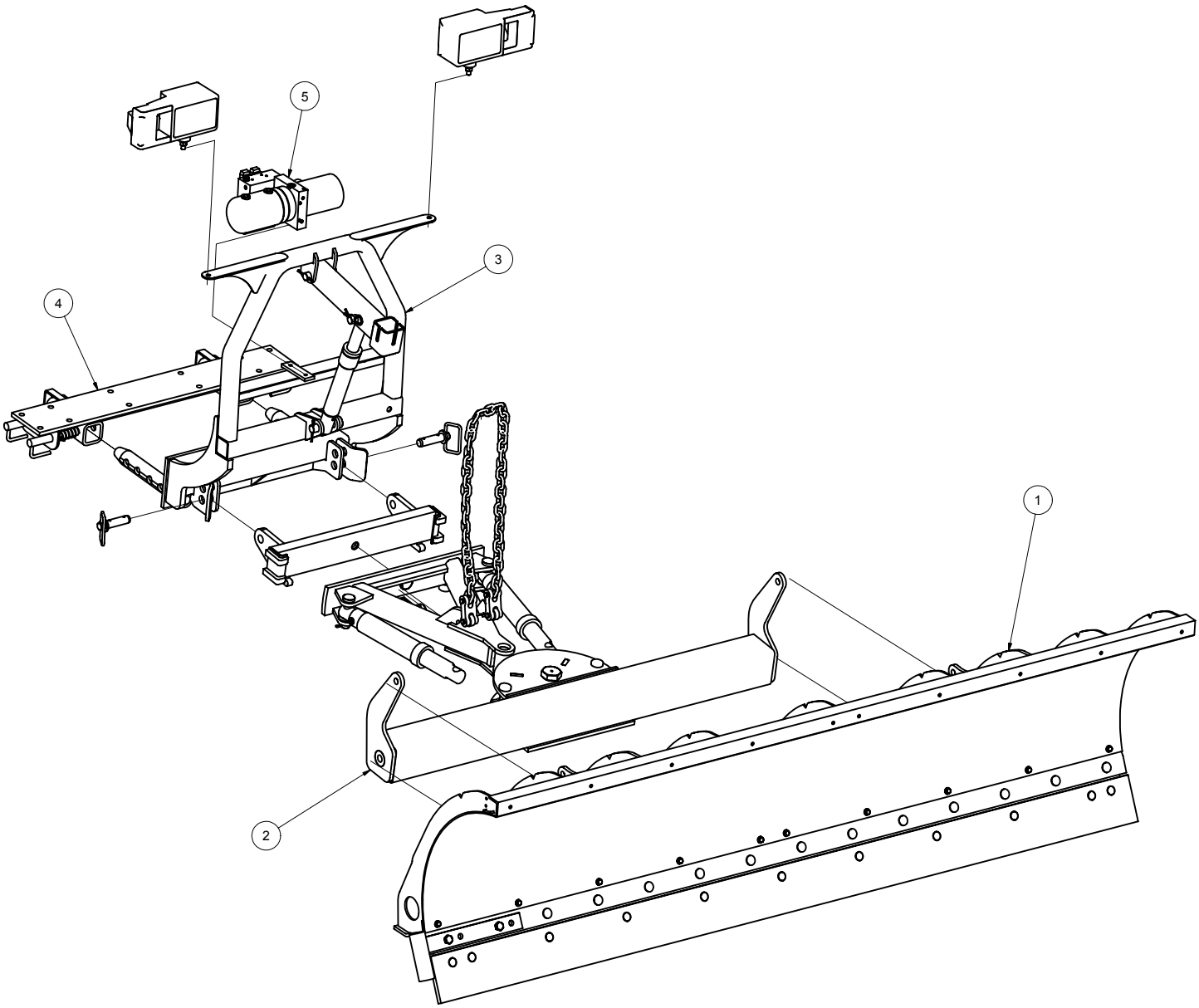
SNO-KING (GEN. II) ASSEMBLY



EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL
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SNO-KING GEN. II ASSEMBLY

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2106	8’ POLY MOLDBOARD ASSEMBLY	1
1	3SK2116	9’ POLY MOLDBOARD ASSEMBLY	1
1	3SK2126	10’ POLY MOLDBOARD ASSEMBLY	1
1	3SK2107	8’ STEEL MOLDBOARD ASSEMBLY	1
1	3SK2117	9’ STEEL MOLDBOARD ASSEMBLY	1
1	3SK2127	10’ STEEL MOLDBOARD ASSEMBLY	1
2	3SK3	LD PUSH FRAME ASSEMBLY	1
3	3SK2200-2GM	2005 SNO-KING LD LIFT FRAME (2X4)	1
4	3SK2209	SNO-KING LD RECEIVER ASSEMBLY	1
5	3SK4056M	ELECTRIC HYDRAULIC POWER UNIT	1

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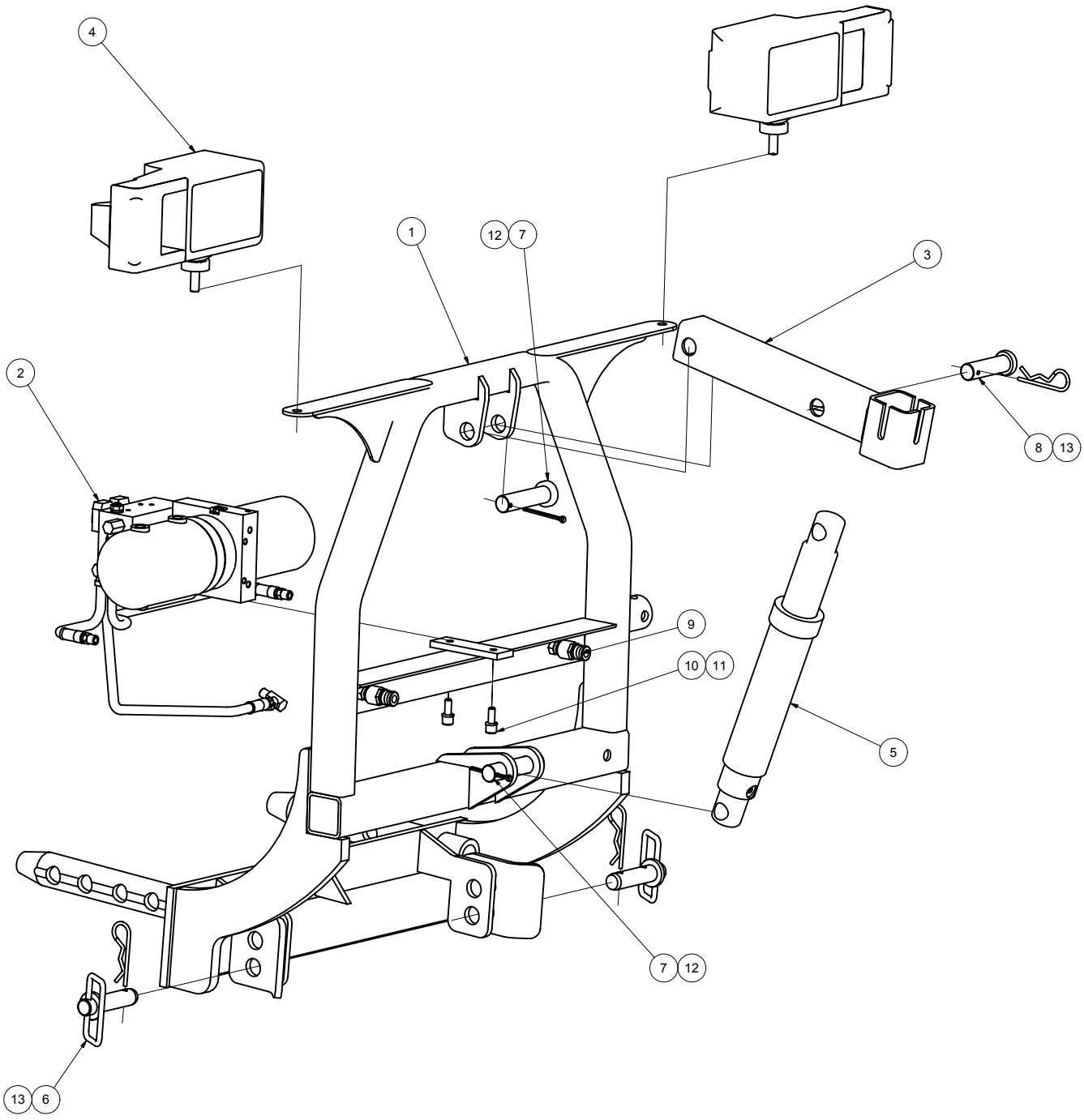
SNO-KING GEN II LIGHT DUTY LIFT FRAME
4 X 4



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SNO-KING GEN. II LIGHT DUTY LIFT FRAME (4X4):

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2200-2	2005 SNO-KING LD LIFT FRAME	1
2	3SK2220-2	LD LIFT ARM WELDMENT	1
3	3SK4000	LIFT CYLINDER 1 ½" X 8"	1
4	3SK6010TLN	PLOW LIGHTS	1
5	3SK4056M	ELECTRIC HYDRAULIC POWER UNIT	1
6	3SK2290	INSTA SHOE	1
7	3SK3411	HANDLE PIN 1" X 3 ¾"	2
8	3SK3400	PIN 1" X 3 ½"	1
9	3SK3410	PIN 1" X 4"	2
10	3SK3405	PIN 5/8" X 3" UH	1
11	2S20A-2	QUICK COUPLING ¼"	2
12	3SK3586	CAP SCREW SOCKET HEAD 3/8" X 1" NC BLACK	2
13	3SK3582	LOCK WASHER SPLIT 3/8" ZINC	2
14	280518	COTTER PIN 3/16" X 2 ½" ZINC	2
15	3SK3460	COTTER HAIR PIN 3/16" X 3 ¾"	3
16	20120710	LYNCH PIN 3/16" X 1 9/16" ZINC	1

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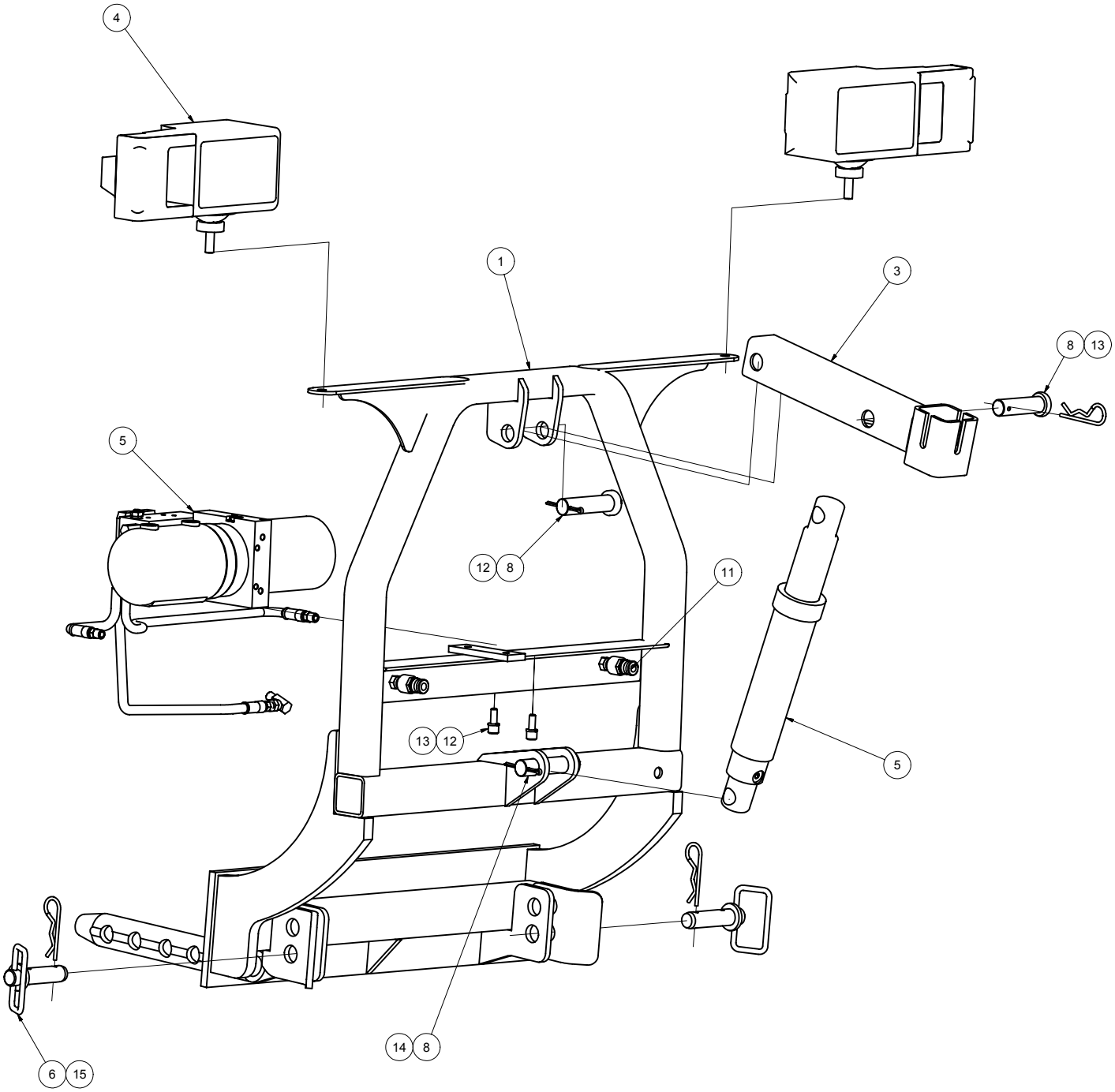
SNO-KING GEN. II LIGHT DUTY LIFT FRAME
2 X 4



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SNO-KING GEN. II LIGHT DUTY LIFT FRAME (2X4):

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2200-2GM	2005 SNO-KING LD LIFT FRAME	1
2	3SK2220-2	LD LIFT ARM WELDMENT	1
3	3SK4000	LIFT CYLINDER 1 ½" X 8"	1
4	3SK6010TLN	PLOW LIGHTS	1
5	3SK4056M	ELECTRIC HYDRAULIC POWER UNIT	1
6	3SK2290	INSTA SHOE	1
7	3SK3411	HANDLE PIN 1" X 3 ¾"	2
8	3SK3400	PIN 1" X 3 ½"	1
9	3SK3410	PIN 1" X 4"	2
10	3SK3405	PIN 5/8" X 3" UH	1
11	2S20A-2	QUICK COUPLING ¼"	2
12	3SK3586	CAP SCREW SOCKET HEAD 3/8" X 1" NC BLACK	2
13	3SK3582	LOCK WASHER SPLIT 3/8" ZINC	2
14	280518	COTTER PIN 3/16" X 2 ½" ZINC	2
15	3SK3460	COTTER HAIR PIN 3/16" X 3 ¾"	3
16	20120710	LYNCH PIN 3/16" X 1 9/16" ZINC	1

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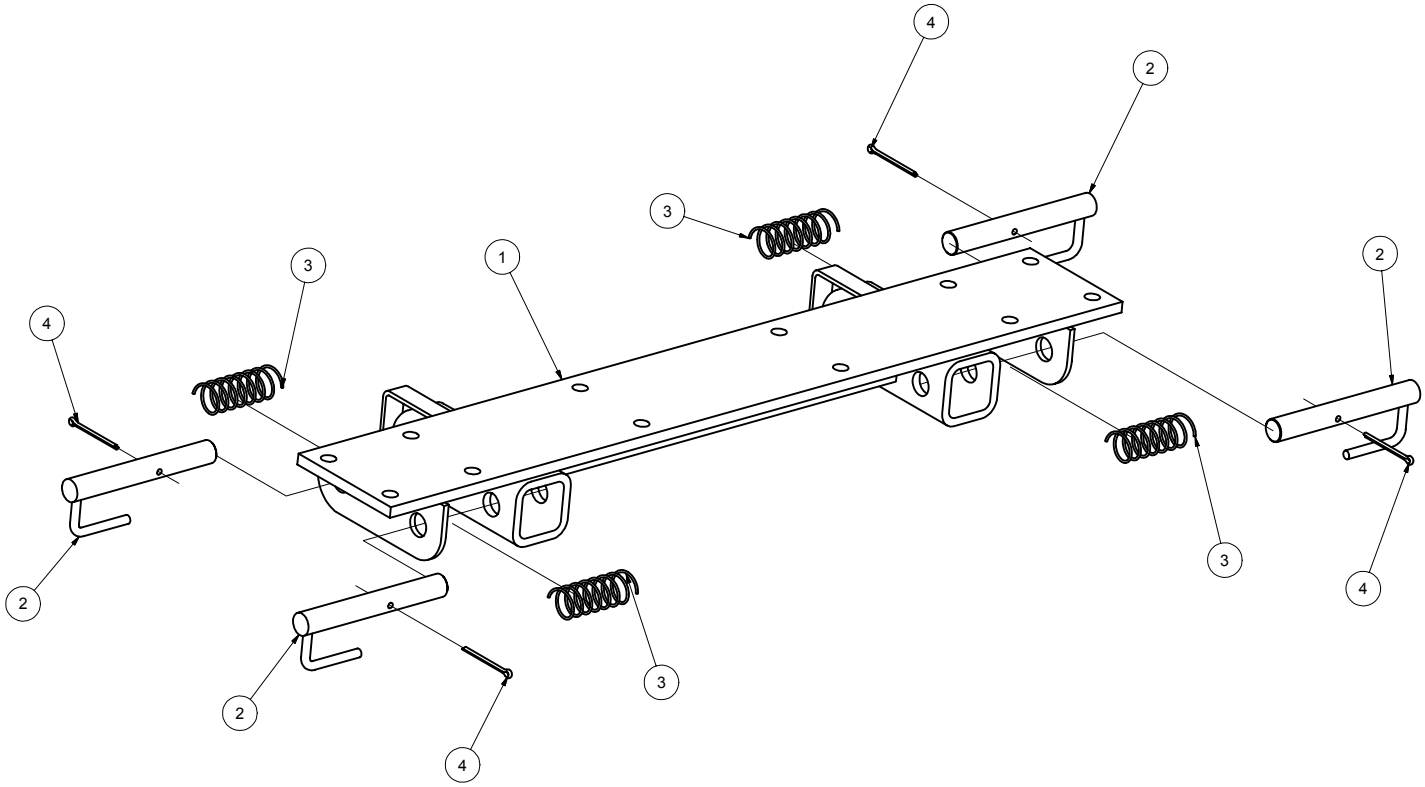
SNO-KING LD RECIEVER ASSEMBLY GEN II
PART #3SK2209



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3SK2209: LIGHT DUTY RECEIVER PARTS

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2211	LD RECEIVER WELDMENT	1
2	3SK3482	GEN II SPRING PIN	4
3	280518	COTTER PIN 3/16" X 2 ½" ZINC	4
4	3SK3482	GEN II SPRING PIN SPRING	4

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SNO-KING CUSHION VALVES WITH CENTRAL HYDRAULIC SYSTEMS:

A cushion valve is **always** required in the reverse circuit of a Sno-King snowplow!

When you purchase a package which includes an electric / hydraulic power unit, a relief valve is an integral part of the power unit reverse valve.

When you purchase a Sno-King light duty package less hydraulics (SK0110, SK0110P, SK0210, SK0210P, SK0310, & SK0310P) no cushion valve is included in the package – we consider them to be a part of the hydraulic package. A cushion valve for reverse cylinder protection must be included in your hydraulic package or certain cylinder failure will result. We recommend a cushion valve with a relief setting between 2250 – 2500 psi (maximum working pressure of the reverse cylinder is 2500 psi).

The majority of our Dealers have opted to supply their own cushion valves. Sno-King will make an optional cushion valve available to those that wish to purchase them from us.

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MAINTENANCE PROCEDURE:
TIGHTENING PACKING NUTS ON SNOW PLOW CYLINDERS

Adjusting packing nuts are used on snowplow cylinders to hold the cylinder together as well as providing pressure against the chevron style rod packing. As the nut is tightened, the v – shaped packing flare out and seal tightly against the rod surface.

Often times, it is necessary to adjust the packing nut in the field if oil starts to leak from the cylinder. This occurs because the seals tend to wear in after 100 cycles and need to have more pressure applied to them.

The proper adjustment procedure for the packing nut is listed below:

1. Loosen the packing nut.
2. Tighten the packing nut by hand until it is snug against the packing
3. Use a nut wrench to tighten the nut ¾ turn.

This simple procedure should produce a torque valve on the nut of 50 foot-pounds and should provide a dry rod when cycled.

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TORQUE ARM REMOVAL:

- Proper torque arm removal is accomplished by pulling the arms from the torque tube assembly via the threaded portion of the inner shaft. Never attempt to pound out the arms, as the arms will be damaged. To install the arms, adequately lubricate the inside of the torque tube, the outside of the torque arms, and press the arms into the torque tube while protecting the threads.
- Please contact DeWayne at 573-262-3545 if you have any questions.

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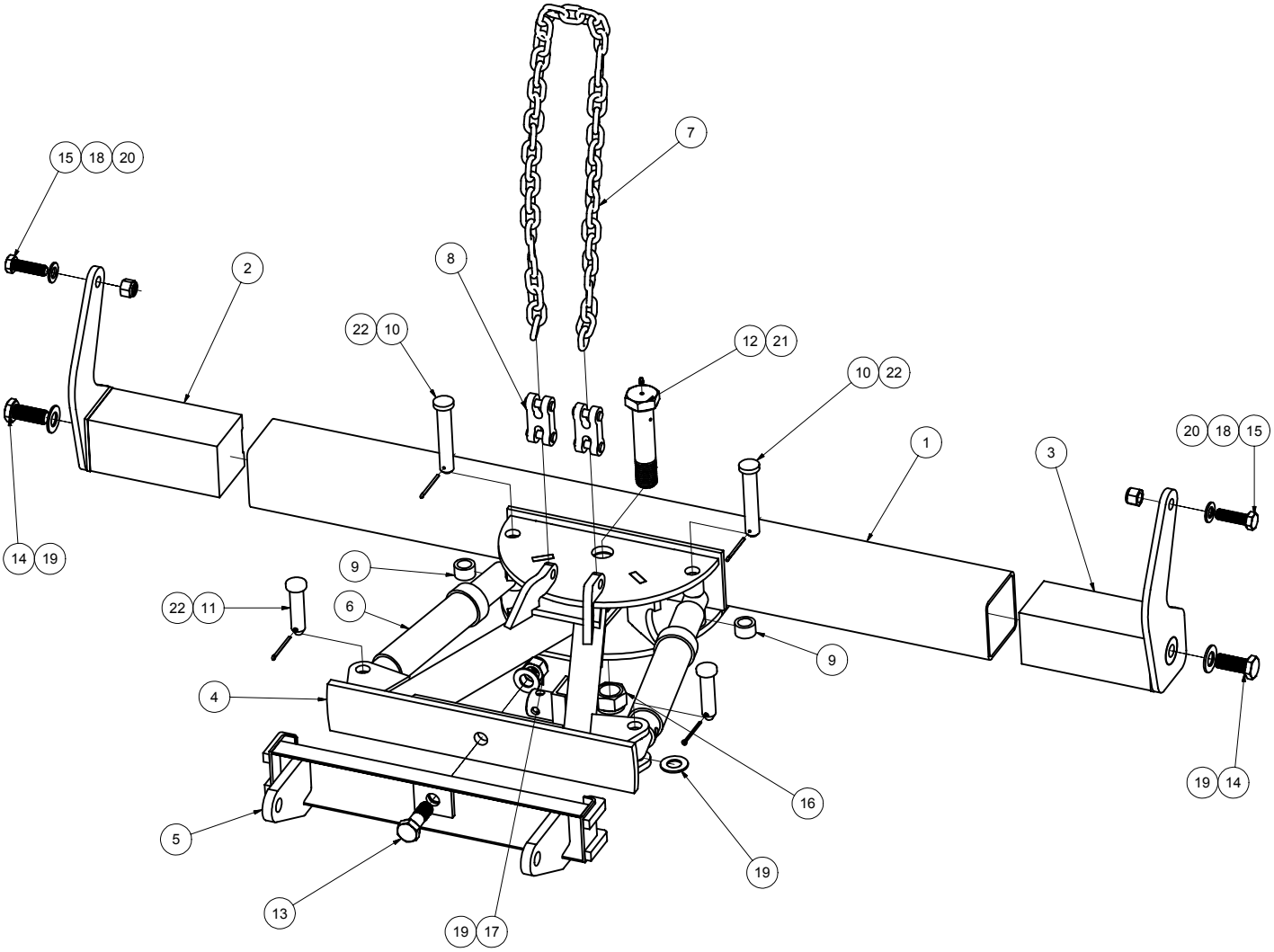
SNO-KING MOLDBOARD / PUSHFRAME ASSEMBLY INSTRUCTIONS:

1. Position the moldboard assembly face down on a flat surface.
2. Remove the factory installed 1" and ¾" fasteners from the left and right torque arm assemblies.
3. Utilizing adequate lifting equipment and proper safety procedures, position the torque tube and A-frame assembly into the rear moldboard cavity and attach with the 1" x 2 ½" fine thread bolts and flat washers, (a coating of premium grade anti-seize thread compound is recommended) but do not completely tighten at this time.
4. Rotate the torque tube and A-frame assembly towards the moldboard and attach, but do not completely tighten at this time, the torque arms to the center moldboard rib adjusting holes with the ¾" x 2 ½" bolts and nuts while positioning the flat washer on the moldboard side of the ribs.
5. Apply thread sealant onto the 90-degree pipefittings and install into the moldboard reversing cylinders.
6. Attach the correct reversing cylinder hose assemblies as indicated in the parts and service manual for your hydraulic application. A cushion valve is required on all central hydraulic systems. (Please note memo on page 18)
7. Connect each end of the lift chain assembly to the A-frame lifting lug with the ½" clevis mid link provided.
8. Once the completed plow assembly has been properly installed on the truck it will be necessary to adjust the moldboard to an angle of attack of 22 – 25 degrees and adequately tighten both the torque tube and torque arm fasteners at that time.

212 NORTH EVANS ROAD, EVANSDALE, IOWA 50707 (319)236-7977 PH (319)236-7980 FX

SNO-KING LIGHT DUTY PUSHFRAME ASSEMBLY
PART #3SK3



NOTES: ITEM NUMBER 23 IS NOT SHOWN
ORDERED IF YOU ARE USING
CENTRAL HYDRAULICS INSTEAD
OF ITEM NUMBER 22

NOTES: OPTIONAL 1 1/2 X 8 REV CYLINDER AVALIBLE
FOR 10' LD MOLDBOARDS (PART #3SK4000)
STANDARD 2 X 8 REV CYLINDERS FOR ALL
10' LD MOLDBOARDS (PART #3SK4020)

NOTES: ITEMS NUMBER 5, 13, 17, & 19
ARE NOT SOLD WITH PART #3SK3

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL
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SNO-KING GEN. II LIGHT DUTY PUSHFRAME ASSEMBLY:

ITEM #	PART #	DESCRIPTION	QTY
1	3SK3	LIGHT DUTY A-FRAME WELDMENT	1
2	3SK2132	LIGHT DUTY TORQUE TUBE WELDMENT	1
3	3SK2182	SWIVEL WELDMENT	1
4	3SK2155-R	TRIPPING TORQUE ARM	1
5	3SK2155-L	TRIPPING TORQUE ARM	1
6	3SK4000	LIFT CYLINDER 1 ½" X 8"	2
7	3SK3488	½" MID LINK	1
8		3/8" CHAIN	1
9	281027	BOLT HEX 1 ½" X 7" UNC ZINC	1
10	3SK3833	BOLT HEX 1" X 3" UNC ZINC	2
11	3SK3830	BOLT HEX 1" X 2 ½" SAE ZINC	2
12	3SK3800	BOLT ¾" X 2 ½" UNC ZINC	1
13	237286	NUT HEX TOP LOCK 1 ½" UNC ZINC	1
14	237278	NUT HEX TOP LOCK 1" UNC ZINC	2
15	3SK3811	NUT HEX TOP LOCK ¾" UNC ZINC	6
16	281013A	FLAT WASHER SAE 1" ZINC	2
17	3SK3820	FLAT WASHER SAE ¾" ZINC	2
18	3SK3421	PIN 1" X 5 ½"	2
19	20900004	PIN 1.000 DIA X 3.406	2
20	20129002	BUSHING 1.500N 1.000M 0.906S	2
21	3SK4120	¼" 90 DEGREE SWIVEL ADAPTER	2
22	280518	COTTER PIN ¼" X 2 ½" ZINC	4
23*	3SK4080*	¼" X 33" HOSE FOR ELECTRONIC HYDRAULICS*	2
24*	3SK4090*	¼" X 40" HOSE FOR CENTRAL HYDRAULICS*	2

***NOTE: Not shown in drawing**.

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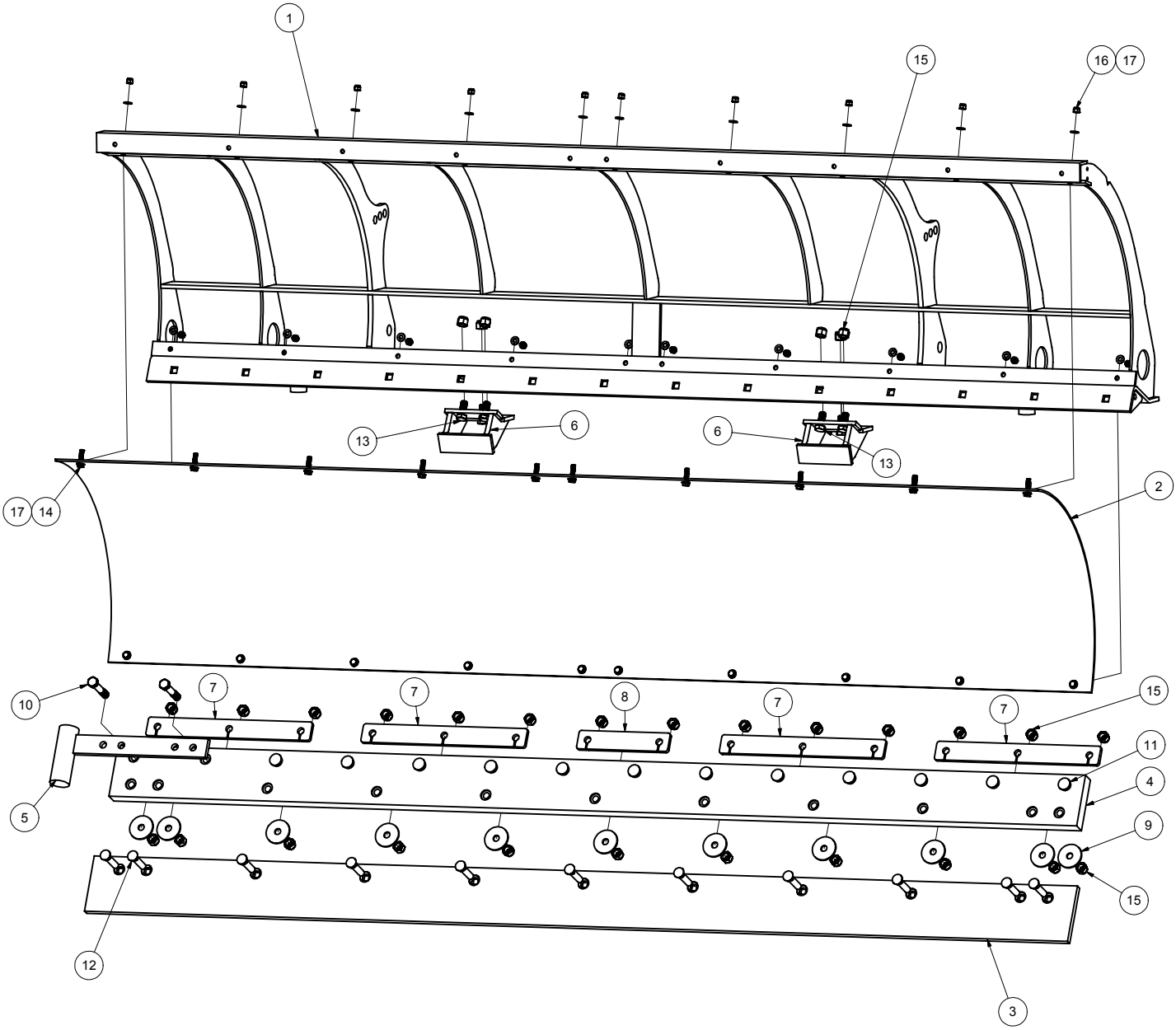
9' POLY MOLDBOARD ASSEMBLY
PART #3SK2116



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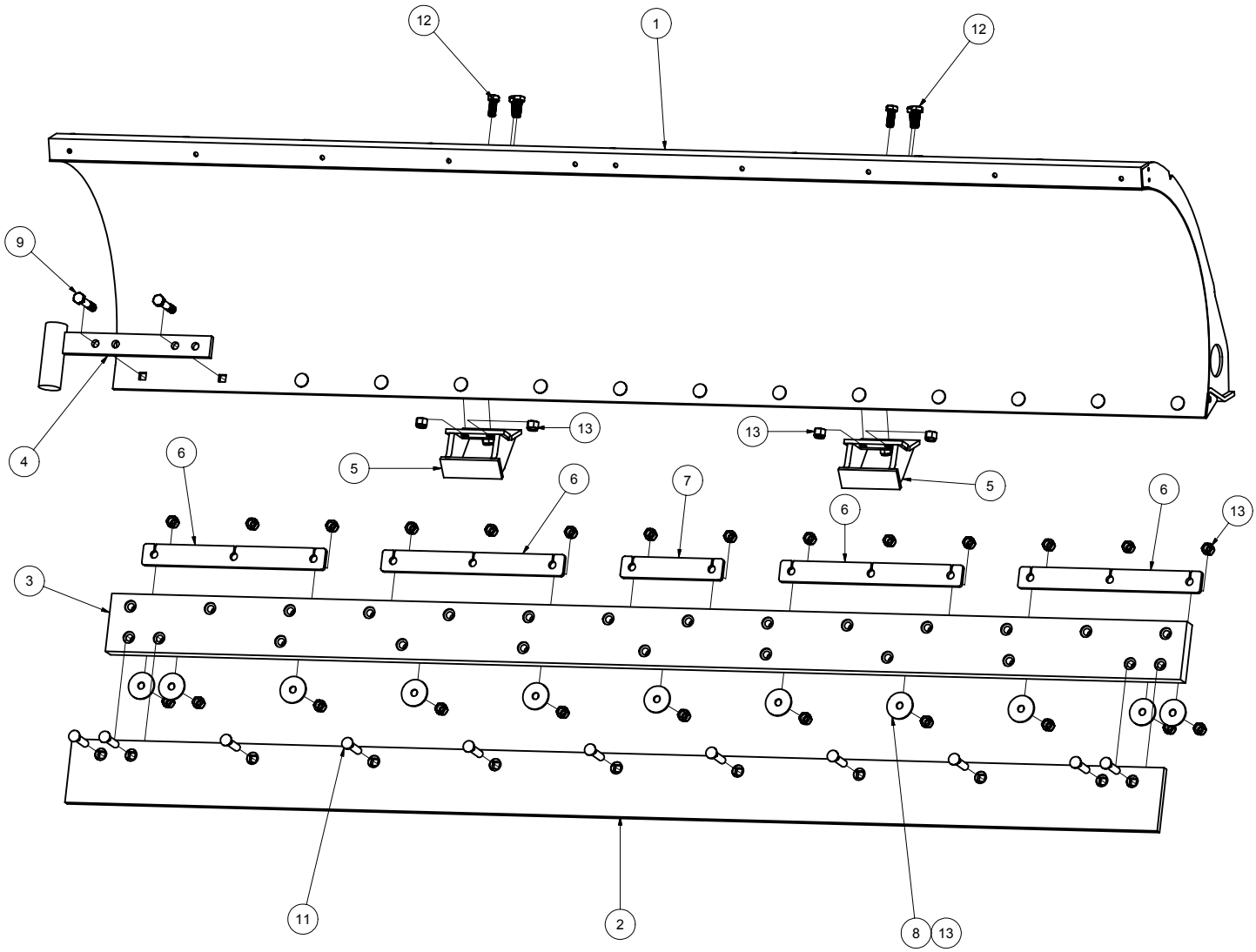
9' STEEL MOLDBOARD ASSEMBLY
PART #3SK2117



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SNO-KING MODEL DT 8' LD MOLDBOARD ASSEMBLY:

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2100	8' STEEL MOLDBOARD	1
1	3SK2105	8' POLY MOLDBOARD *	1
2	3SK7055	8' POLY SHEET *	1
3	3SK7102	5/8" X 6" X 96" CUTTING EDGE	1
4	3SK7051	96" ADIPRENE™ TRIP HINGE	1
5	3SK2281	HINGE STOP WITH FASTENERS	2
6	3SK7164	PLATE WASHER 18"	4
8	3SK2285	CURB SHOE	1
9	3SK7020	28" PLOW MARKERS	1
10	3SK3722	BOLT HEX 5/8" X 3 ½" UNC ZINC GRADE 8	2
11	2N81074	5/8" X 3" PLOW BOLT	10
12	3SK3720	5/8" 3" GRADE 5 CARRIAGE BOLT	10
13	3SK3698	BOLT HEX 5/8" X 1 ½" UNC ZINC GRADE 8	6
14	3SK3585	BOLT HEX 3/8" X 1 ½" UNC ZINC GRADE 8 *	20
15	3SK3781	NUT HEX TOP LOCK 5/8" UNC ZINC	22
16	3SK3591	NUT HEX TOP LOCK 3/8" UNC ZINC *	20
17	3SK3595	FLAT WASHER SAE 3/8" ZINC *	40
18	3SK3768	5/8" X 2 ½" O.D. WASHER	10

*USED ON 8' POLY MOLDBOARDS ONLY

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SNO-KING MODEL DT 9’ LD MOLDBOARD ASSEMBLY:

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2115	9’ STEEL MOLDBOARD	1
1	3SK2110	9’ POLY MOLDBOARD *	1
2	3SK7066	9’ POLY SHEET *	1
3	3SK7112	5/8” X 6” X 108” CUTTING EDGE	1
4	3SK7061	108” ADIPRENE™ TRIP HINGE	1
5	3SK2281	HINGE STOP WITH FASTENERS	2
6	3SK7164	PLATE WASHER 18”	4
7	3SK7165	PLATE WASHER 10”	1
8	3SK2285	CURB SHOE	1
9	3SK7020	28” PLOW MARKERS	1
10	3SK3722	BOLT HEX 5/8” X 3 ½” UNC ZINC GRADE 8	2
11	2N81074	5/8” X 3” PLOW BOLT	11
12	3SK3720	5/8” 3” GRADE 5 CARRIAGE BOLT	12
13	3SK3698	BOLT HEX 5/8” X 1 ½” UNC ZINC GRADE 8	6
14	3SK3585	BOLT HEX 3/8” X 1 ½” UNC ZINC GRADE 8 *	20
15	3SK3781	NUT HEX TOP LOCK 5/8” UNC ZINC	31
16	3SK3591	NUT HEX TOP LOCK 3/8” UNC ZINC *	20
17	3SK3595	FLAT WASHER SAE 3/8” ZINC *	40
18	3SK3768	5/8” X 2 ½” O.D. WASHER	11

*USED ON 9’ POLY MOLDBOARDS ONLY

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SNO-KING MODEL DT 10’ LD MOLDBOARD ASSEMBLY:

ITEM #	PART #	DESCRIPTION	QTY
1	3SK2121	10’ STEEL MOLDBOARD	1
1	3SK2125	10’ POLY MOLDBOARD *	1
2	3SK7076	10’ POLY SHEET *	1
3	3SK7121	5/8” X 6” X 120” CUTTING EDGE	1
4	3SK7071	120” ADIPRENE™ TRIP HINGE	1
5	3SK2281	HINGE STOP WITH FASTENERS	2
NOT SHOWN	3SK7166	PLATE WASHER 26” UPPER	3
NOT SHOWN	3SK7167	PLATE WASHER 6” UPPER	2
8	3SK2285	CURB SHOE	1
9	3SK7030	36” PLOW MARKERS	1
10	3SK3722	BOLT HEX 5/8” X 3 ½” UNC ZINC GRADE 8	3
11	2N81074	5/8” X 3” PLOW BOLT	12
12	3SK3720	5/8” 3” GRADE 5 CARRIAGE BOLT	10
13	3SK3698	BOLT HEX 5/8” X 1 ½” UNC ZINC GRADE 8	6
14	3SK3585	BOLT HEX 3/8” X 1 ½” UNC ZINC GRADE 8 *	24
15	3SK3781	NUT HEX TOP LOCK 5/8” UNC ZINC	29
16	3SK3591	NUT HEX TOP LOCK 3/8” UNC ZINC *	24
17	3SK3595	FLAT WASHER SAE 3/8” ZINC *	48
18	3SK3768	5/8” X 2 ½” O.D. WASHER	12

*USED ON 10’ POLY MOLDBOARDS ONLY

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NOTES

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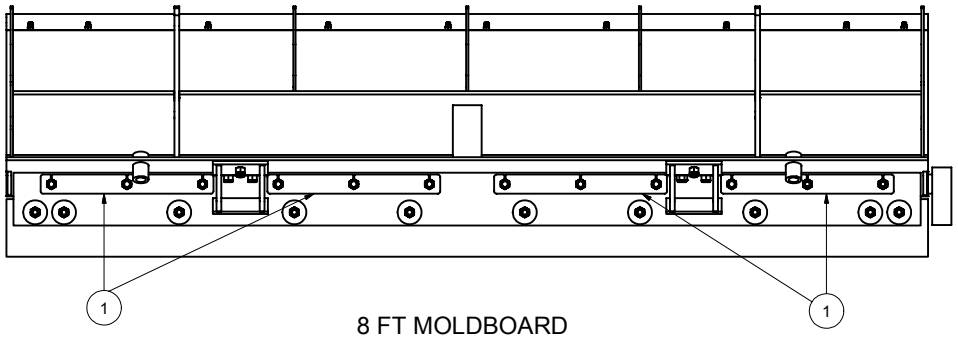
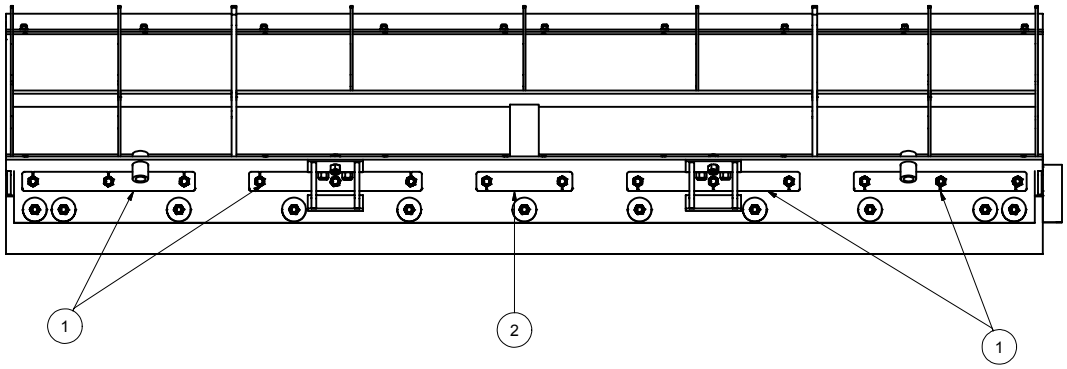
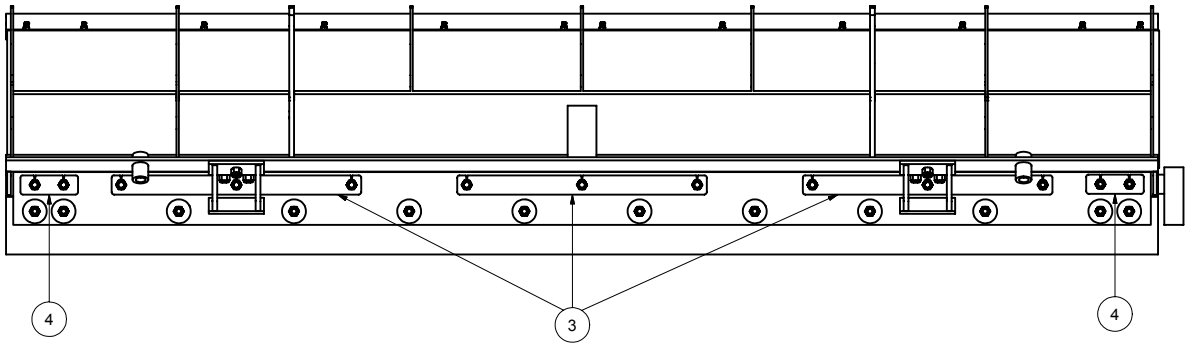
PLATE WASHER LAYOUT



8 FT MOLDBOARD
PART NUMBER 3SK8WK HARDWARE KIT



9 FT MOLDBOARD
PART NUMBER 3SK9WK HARDWARE KIT



10 FT MOLDBOARD
PART NUMBER 3SK10WK HARDWARE KIT

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PLATE WASHER LAYOUT:

ITEM #	PART #	DESCRIPTION	QTY
1	3SK7164	PLATE WAHSER 18”	
2	3SK7165	PLATE WASHER 10”	
3	3SK7166	PLATE WASHER 26”	
4	3SK7167	PLATE WASHER 6”	

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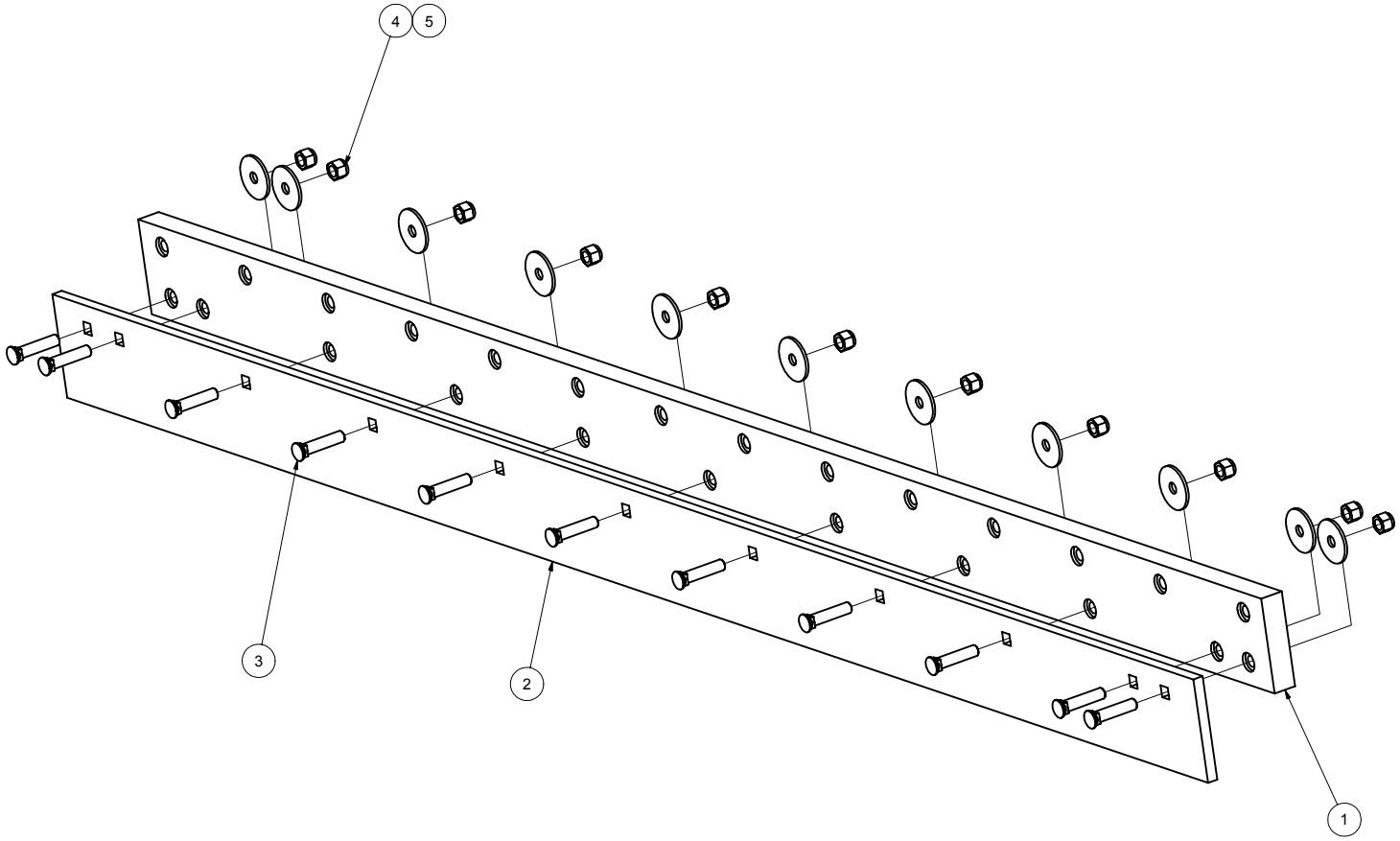
BLADE/HINGE ASSEMBLY INSTRUCTIONS



NOTES: DON'T USE CUTTING TORCH TO REMOVE BOLTS WHEN CHANGING CUTTING EDGE. IT WILL RUIN ADIPRENE HINGE.

NOTES: ALWAYS USE NEVER SEIZE ON ALL BOLTS WHEN REINSTALLING REPLACEMENT BLADES

EQUIPMENT MAY NOT BE EXACTLY AS SHOWN. SOME COMPONENTS MAY BE OPTIONAL
TO MAINTAIN OUR ON-GOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING-CIVES RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.

22956 Highway 61 Morley, MO 63767 PH: 573-262-3545; FAX: 573-262-3369 www.vikingcives.com

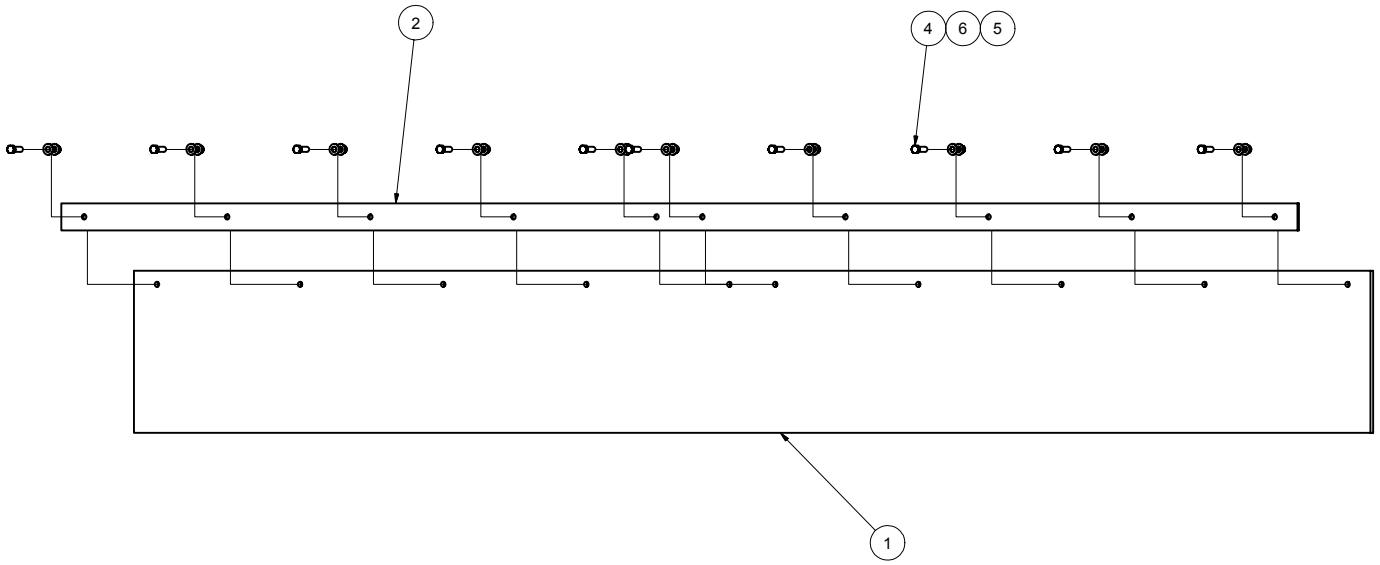
ADIPRENE TRIP HINGE:

ITEM #	PART #	DESCRIPTION	QTY
1	3SK7051	96” ADIPRENE™ TRIP HINGE	1
1	3SK7061	108” ADIPRENE™ TRIP HINGE	1
1	3SK7071	120” ADIPRENE™ TRIP HINGE	1
2	3SK7102	CUTTING EDGE 5/8” X 6” X 96”	1
2	3SK7112	CUTTING EDGE 5/8” X 6” X 108”	1
2	3SK7121	CUTTING EDGE 5/8” X 6” 120”	1
3	3SK3725	5/8” X 3” GRADE 5 CARRIAGE BOLT	11
4	3SK3781	NUT HEX TOP LOCK 5/8” UNC ZINC	11
5	3SK 3768	5/8 X 2 ½” O.D. WASHER	11

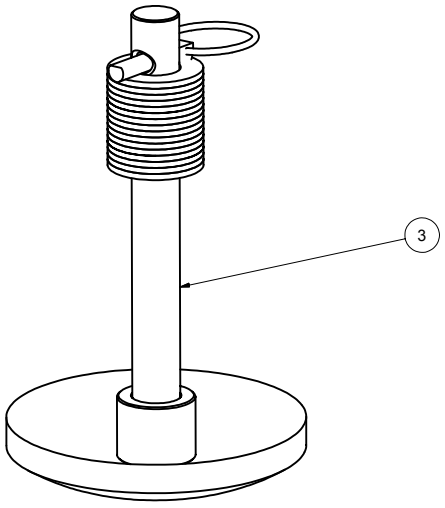
QUANTITY OF BOLTS, NUTS, AND WASHER WILL CHANGE DEPENDING ON SIZE

22956 HWY 61 PO BOX 295 MORLEY, MO 63767 (573)262-3545 PH (573)262-3369 FX

SNO-KING RUBBER DEFLECTOR
9' REPRESENTED



SNO-KING MUSHROOM SHOE, PIN, & WASHERS
PART #3SK2279



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TO MAINTAIN OUR ON-GOING PRODUCT AND DEVELOPMENT IMPROVEMENT PROGRAM, VIKING-CIVES RESERVES THE RIGHT TO CHANGE EQUIPMENT & SPECIFICATION WITHOUT NOTICE.

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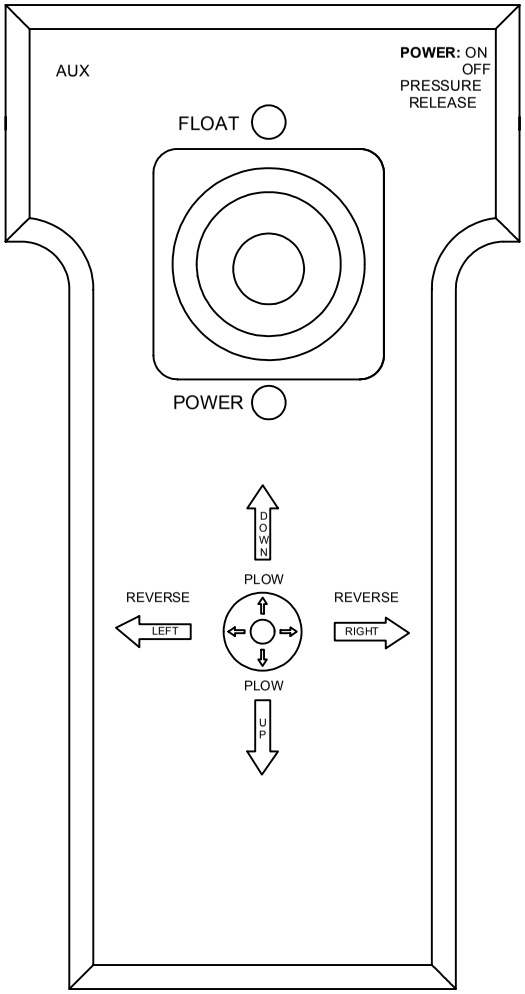
RUBBER DEFLECTOR:

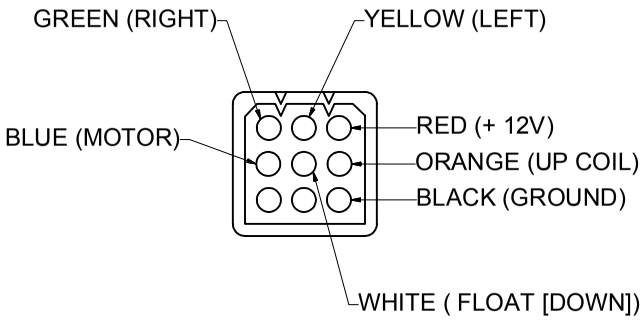
ITEM #	PART #	DESCRIPTION	QTY
1	3SK7130	8’ RUBBER DEFLECTOR	1
1	3SK7140	9’ RUBBER DEFLECTOR	1
1	3SK7150	10’ RUBBER DEFLECTOR	1
2	3SK7155	8’ RETAINER STRIP	1
2	3SK7156	9’ RETAINER STRIP	1
2	3SK7157	10’ RETAINER STRIP	1
3	3SK2279	SKID SHOE, WASHERS, AND PIN	2
4	3SK3585	BOLT HEX 3/8” X 1 ½” UNC ZINC	10
5	3SK3595	FLAT WASHER SAE 3/8” ZINC	20
6	3SK3591	NUT HEX TOP LOCK 3/8” UNC ZINC	10

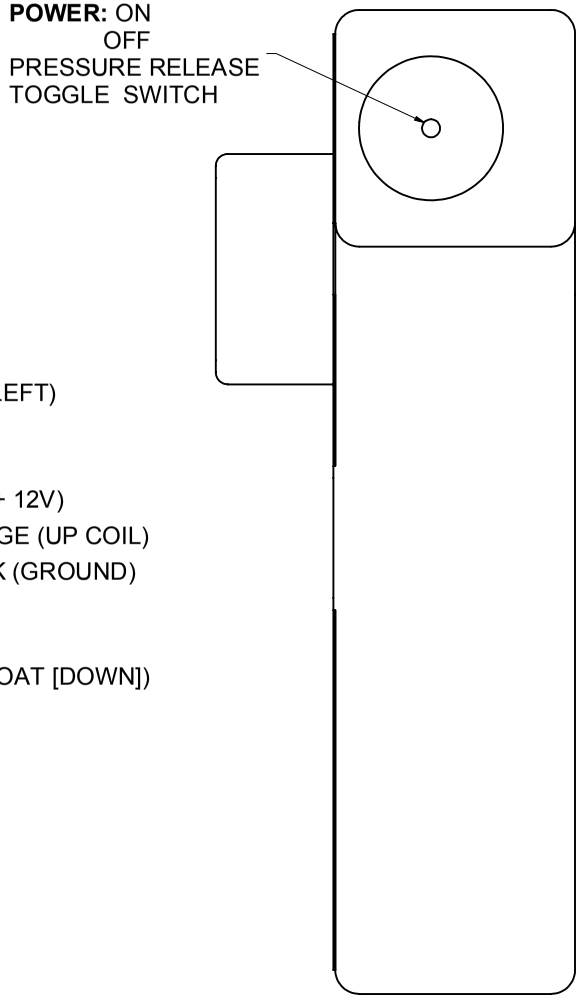
QUANTITY OF BOLTS, NUTS, AND WASHER WILL CHANGE DEPENDING ON SIZE

22956 HWY 61 MORLEY, MO 63767 Phone:(573)262-3545 Fax:(573)262-3369

SNO-KING REMOTE
PART #3SK4064







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This Owner's Manual File is Contained Within SNO-KING REMOTE.idw

DRAWING NO.
90-8553-00

REV.	ZONE	DESCRIPTION	E.C.N. #	BY	DATE
A	–	INITIAL RELEASE	–	SRL	11/22/02

Sno-King

RELAY # 1

HIGH

PIN #	COLOR	AWG
85	GREEN/YELLOW	18
86	WHITE/BLACK	18
30	YELLOW	16
87	YELLOW/BLACK	16
87a	YELLOW/RED	16

RELAY # 2

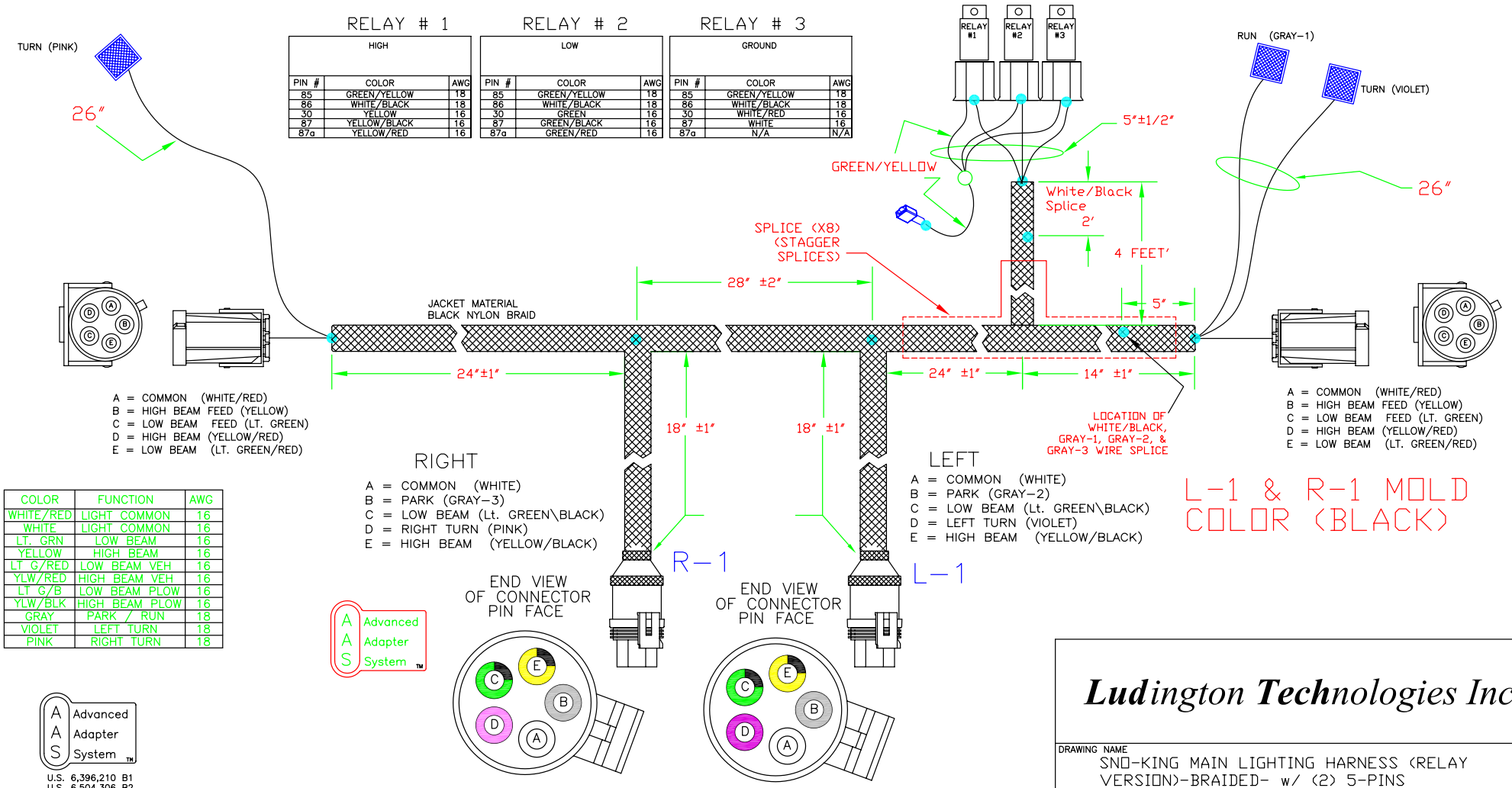
LOW

PIN #	COLOR	AWG
85	GREEN/YELLOW	18
86	WHITE/BLACK	18
30	GREEN	16
87	GREEN/BLACK	16
87a	GREEN/RED	16

RELAY # 3

GROUND

PIN #	COLOR	AWG
85	GREEN/YELLOW	18
86	WHITE/BLACK	18
30	WHITE/RED	16
87	WHITE	16
87a	N/A	N/A



COLOR	FUNCTION	AWG
WHITE/RED	LIGHT COMMON	16
WHITE	LIGHT COMMON	16
LT. GRN	LOW BEAM	16
YELLOW	HIGH BEAM	16
LT G/RED	LOW BEAM VEH	16
YLW/RED	HIGH BEAM VEH	16
LT G/B	LOW BEAM PLOW	16
YLW/BLK	HIGH BEAM PLOW	16
GRAY	PARK / RUN	18
VIOLET	LEFT TURN	18
PINK	RIGHT TURN	18

A Advanced
A Adapter
S System ™

U.S. 6,396,210 B1
U.S. 6,504,306 B2
U.S. & INT'L PATS. PENDING

TOLERANCES ARE:
FRACTIONS ± 1/2
DECIMALS XX ± .5, XXX ± .25
ANGLES ± 0°30′
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

DO NOT SCALE DRAWING.

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Ludington Technologies Inc.

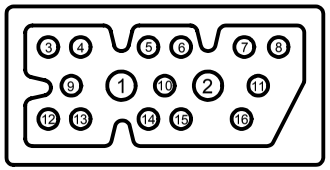
DRAWING NAME
SNO-KING MAIN LIGHTING HARNESS (RELAY VERSION)-BRAIDED- w/ (2) 5-PINS

DRAWN BY	DATE	CHECKED BY	DATE
SRL	11/22/02		

SIZE	SCALE	DRAWING NO.	REV.
B	NTS	90-8553-00	A

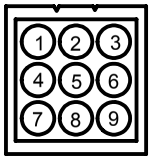
SHEET 1 of 1

PIN #1 GROUN/AUX GROUND
PIN #2 12 VDC (+)
PIN #3 BROWN (PUMP SOLENOID)
PIN #5 BLUE/BLACK (?)
PIN #6 RED (LEFT ANGLE)
PIN #8 GREEN/BLACK (RIGHT ANGLE)
PIN #9 GREEN/YELLOW (AUTO LIGHT TRANSFER)
PIN #11 ORANGE/WHITE (FLOAT)
PIN #15 RED/BLACK (12 VDC (+))

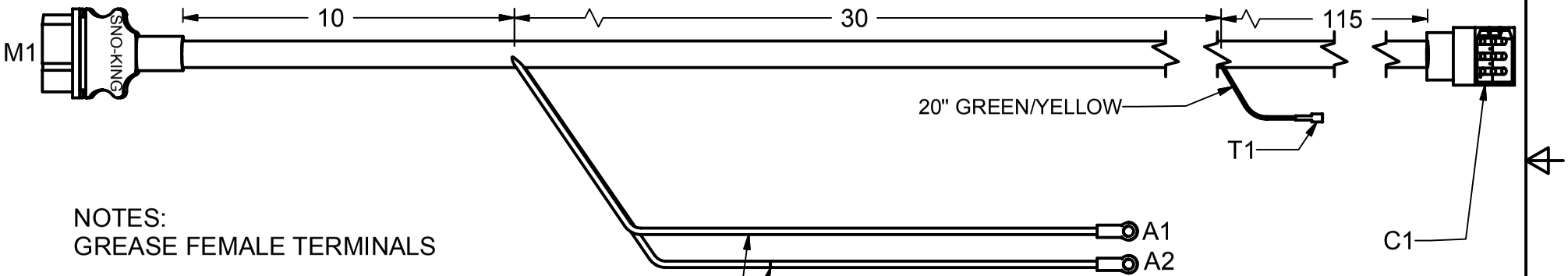


END VIEW LOOKING AT FACE OF M1 CONNECTOR

PIN #1 RED/BLACK (12V +)
PIN #2 RED (LEFT)
PIN #3 GREEN/BLACK (RIGHT)
PIN #4 BLUE/BLACK (LIFT)
PIN # 5 ORANGE/WHITE (FLOAT)
PIN #6 BROWN (PUMP SOLENOID)
PIN #7 WHITE/BLACK (GROUND)



END VIEW LOOKING AT FACE OF C1 CONNECTOR



NOTES:
GREASE FEMALE TERMINALS

HIGH AMP WIRES 78" LONG
COLORS: PIN 1 BLACK
PIN 2 RED
WIRE SGT 4 AWG
END RING TERMINALS

3/8 ID ± - 0.0 TO + 0.03

MATERIAL:		REV	ECN	DESCRIPTION	DRAWN	APPVD	DATE
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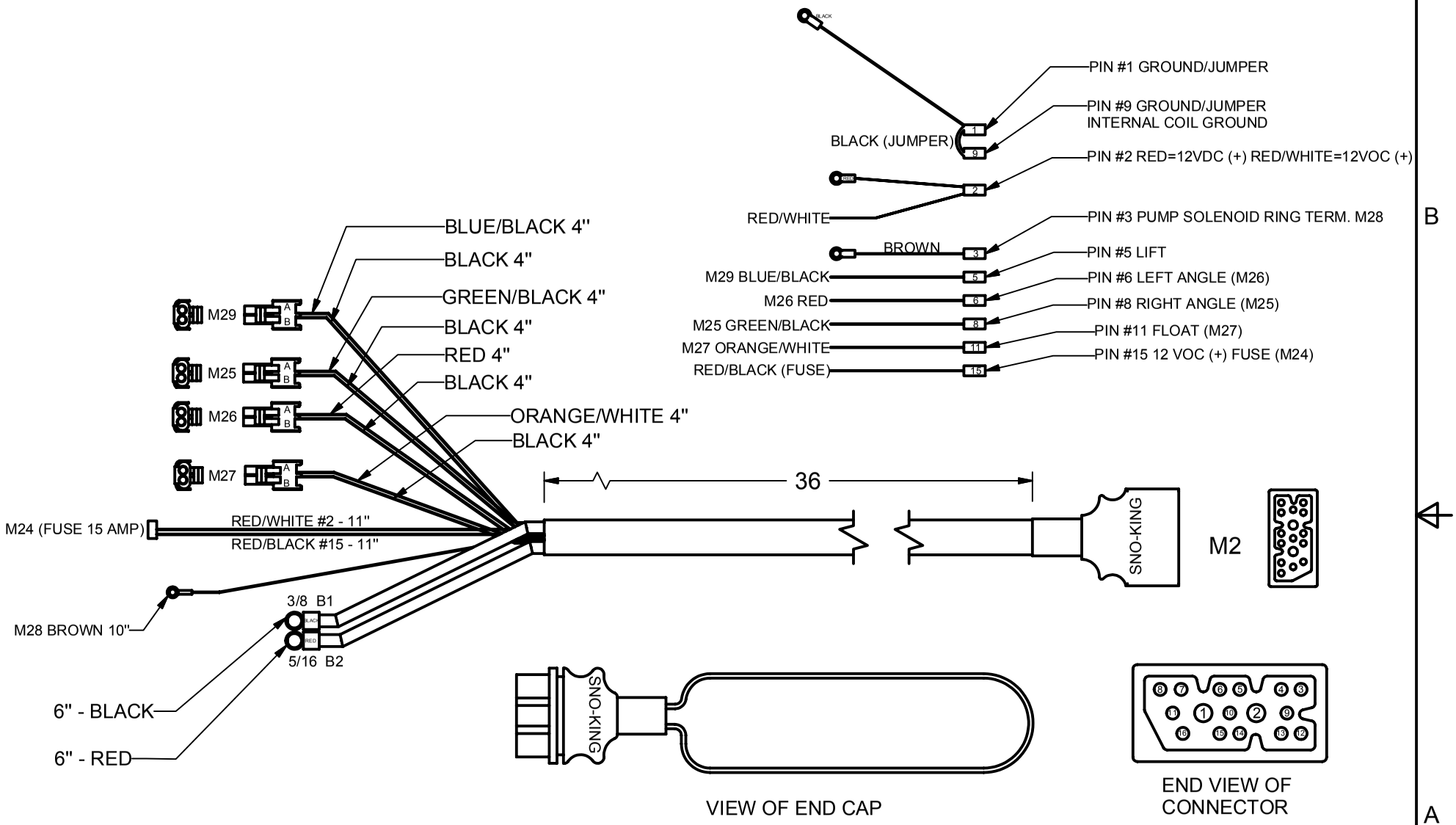
CHECKED BY: DATE:							
DWG SIZE: ANSI A SCALE:							
ALT. ITEM: EST. UNITS:	THIRD-ANGLE PROJECTION	SNO-KING (ALT) VEHICLE SIDE			DWG NO. SK6106M		REV NO. 1



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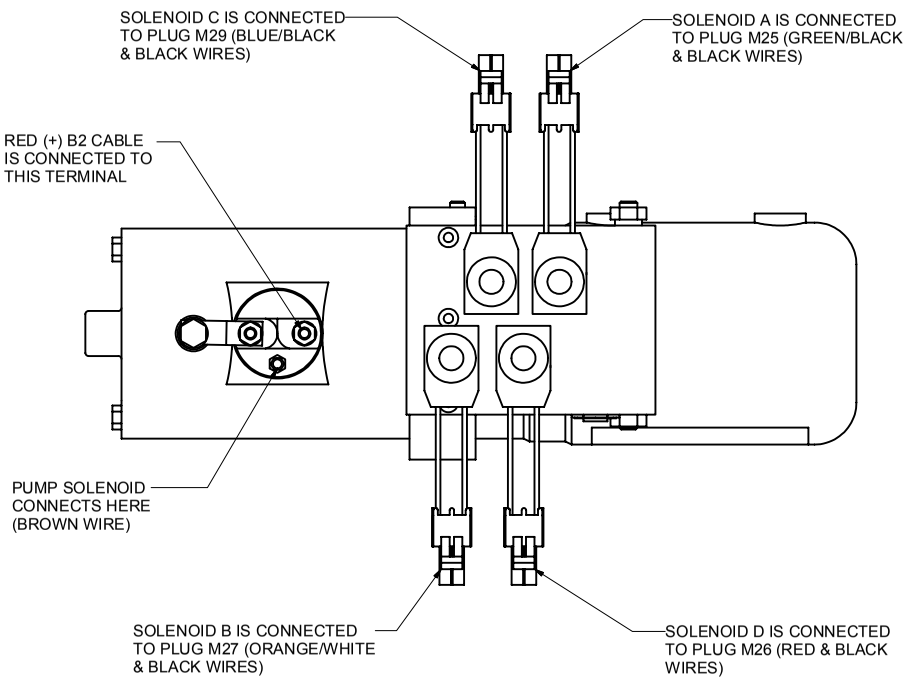
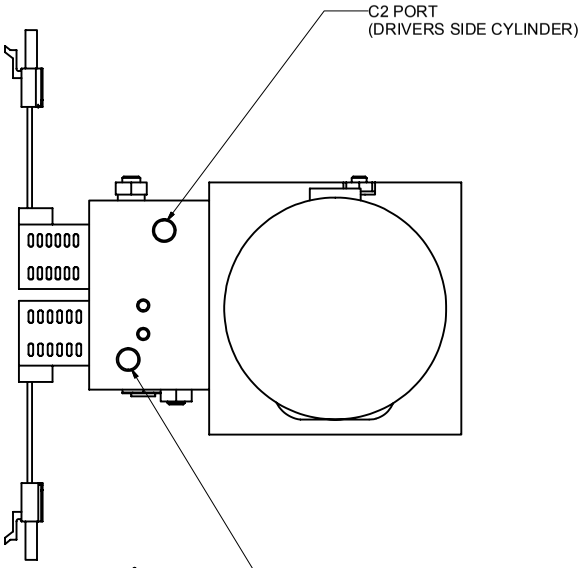
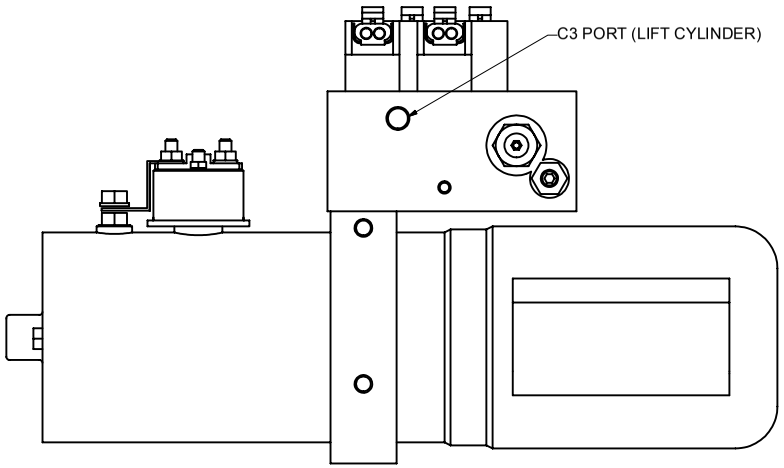
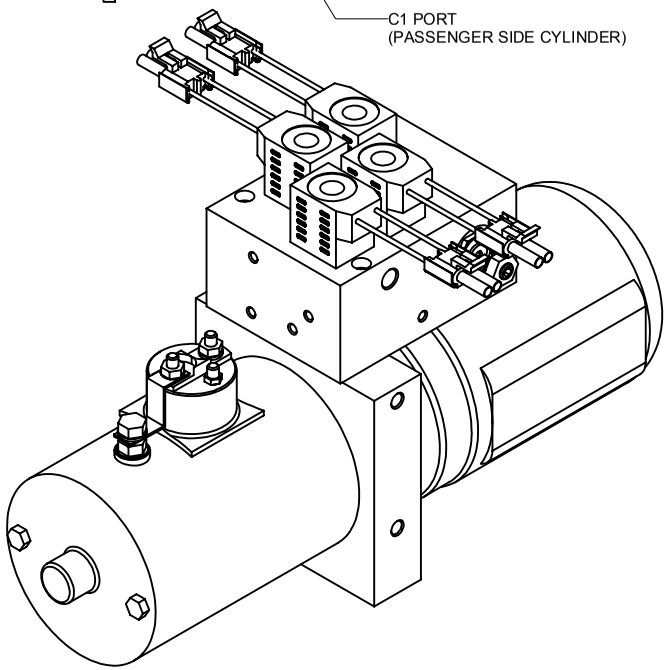
CHECKED BY: DATE:							
DWG SIZE: ANSI A SCALE:							
ALT. ITEM: EST. UNITS:	THIRD-ANGLE PROJECTION	SNO-KING PLOW SIDE WIRING HARNESS		DWG NO. SK6105M		REV NO.	


SOLENOID C IS CONNECTED TO PLUG M29 (BLUE/BLACK & BLACK WIRES)
SOLENOID A IS CONNECTED TO PLUG M25 (GREEN/BLACK & BLACK WIRES)
RED (+) B2 CABLE IS CONNECTED TO THIS TERMINAL
PUMP SOLENOID CONNECTS HERE (BROWN WIRE)
SOLENOID B IS CONNECTED TO PLUG M27 (ORANGE/WHITE & BLACK WIRES)
SOLENOID D IS CONNECTED TO PLUG M26 (RED & BLACK WIRES)







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DATE: 9/23/2004								
CHECKED BY:								
DATE:								
DWG SIZE: ANSI C								
SCALE:	THIRD-ANGLE PROJECTION							
ALT. ITEM:								
EST. UNITS:		MONARCH PUMP ASSSEMBLY	DWG NO. 3SK4056M			REV NO. 1		

SNO-KING
DIVISION OF VIKING-CIVES GROUP
22956 Highway 61, P.O. Box 295
MORLEY, MO 63767
TELEPHONE 573/262-3545

*** LIMITED WARRANTY***

SNO-KING warrants products of its manufacture against defects in workmanship and material for a period of one year from date of shipment to customer; and in consequence of this warranty, any component part or parts of such products proving defective within the above specified time will be repaired or replaced F.O.B. factory, providing such parts are returned, transportation prepaid, to the factory and found defective by **SNO-KING**. This warranty will not apply to any product which shall have been repaired or altered outside of the **SNO-KING** factory in any way so as, in **SNO-KING** sole judgement, to affect its stability or reliability, nor which has been subjected to misuse, negligence or accident.

The obligations of **SNO-KING** under this limited warranty are limited to the replacement of defective parts as set forth above; such obligations are exclusive and in lieu of all other remedies, warranties, guarantees or liabilities, express or implied, with respect to each product delivered hereunder, arising by law or otherwise (including without limitation any obligation or liability of **SNO-KING**, arising from negligence or with respect to fitness for a particular purpose, merchantability, loss or use, revenue, or profit, or any incidental, indirect, special or consequential damages or injuries, even if **SNO-KING** has been advised of the possibility of such damages or injuries; and all other remedies, warranties, guarantees, or liabilities are hereby expressly excluded and disclaimed. This limited warranty shall not be extended, altered, or varied except by a written instrument signed by **SNO-KING**.

SNO-KING assumes no responsibility for engines, electrical equipment, or any other equipment and accessories not manufactured by **SNO-KING**.

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